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DISTRIBUTIONS OF INDUSTRIAL AND COMMERCIAL-INSTITUTIONAL EXTERNAL COMBUSTION BOILERS

Richard E. Paddock, et al

Research Triangle Institute

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16. ABSTRACT

The report gives results of a study of some characteristics of industrial and commercial-institutional external combustion boilers. The results are presented as tables of joint distributions within various boiler, plant, stack, and fuel characteristics, along with marginals and cumulative marginals and some descriptive graphs. Inputs were provided from EPA's National Emissions Data System (NEDS) data base. Preceding the distributions and marginals, there is a description of the method of their production; following the distributions are a logical flow chart and listings of the computer programs that produced the distributions and graphs.

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Industrial Plants		13M
Chimneys		

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ABSTRACT

This is a study of some characteristics of commercial-institutional and industrial external combustion boilers. The results of the study are presented as tables of joint distributions within various boiler, plant, stack, and fuel characteristics along with marginals and cumulative marginals and some descriptive graphs. Data were provided from EPA's National Emissions Data System (NEDS) data base.

Preceding the distributions and marginals, there is a description of the method of their production; following the distributions are a logical flow chart and listings of the computer programs which produced the distributions and graphs.

DISTRIBUTIONS OF COMMERCIAL-INSTITUTIONAL AND INDUSTRIAL EXTERNAL COMBUSTION BOILERS

A. OVERVIEW

In this study, the goal was to produce various joint distributions of individual boilers and total plants in capacity ranges so that further studies could be undertaken, if desired. The following joint distributions and their marginals were produced separately:

1. Number of boilers within boiler capacity and load factor;
2. Number of plants within plant capacity and load factor;
3. Total boiler capacity within boiler capacity and load factor;
4. Total plant capacity within plant capacity and load factor;
5. Number of boilers per plant within plant capacity and load factor;
6. Number of stacks within stack height and total capacity served;
7. Number of boilers within boiler capacity and boiler fuel sulfur content;
8. Number of plants within plant capacity and plant fuel sulfur content;

9. Total boiler capacity within boiler capacity and boiler fuel sulfur content;
10. Total plant capacity within plant capacity and plant fuel sulfur content;
11. Total sulfur emitted within boiler capacity and boiler fuel sulfur content;
12. Total sulfur emitted within plant capacity and plant fuel sulfur content;
13. Total fuel used within boiler capacity and boiler fuel sulfur content;
14. Total fuel used within plant capacity and plant fuel sulfur content.

These distributions were produced from the National Emissions Data System (NEDS) data supplied by the Environmental Protection Agency (EPA). Data were selected by Source Classification Code (SCC) 103xxxxx for Commercial-Institutional External Combustion Boilers and 102xxxxx for Industrial External Combustion Boilers.

The joint distributions are presented in the Appendix along with selected graphical displays. They have been compiled separately for Industrial Boilers and the Commercial-Institutional Boilers. Furthermore, the distributions are shown for all fuels, all coal fuels (SCC fuels 001, 002, and 003), all oil fuels (SCC fuels 004 and 005), and all gaseous fuels (SCC fuels 006, 007, and 010).

Discussions of the factors involved in calculating each of the distribution types are presented in Sections B-D; the marginals of the tables are discussed in Section E; the graphs accompanying the distribution tables are discussed in Section F; and a key to easy use of the tables and

graphs is given in Section G. The tables themselves are in Appendix A, while Appendix B contains a logic flowchart of the computer programs used along with listings of the three programs themselves.

B. JOINT DISTRIBUTIONS BY CAPACITY AND LOAD FACTOR

This type of distribution was used in distribution numbers 1-5 as listed in Section A. The NEDS data include entries for nominal boiler capacity in 10^6 Btu/hour for each boiler, amount of fuel used by type in the reported year, and fuel heat content for each fuel type in 10^6 Btu. Load factor is given by

$$\frac{\text{(Annual Fuel Used)(Heat Content)}}{\text{(8760)(Reported Hourly Capacity)}}$$

where 8760 is the number of hours per year. If the reported capacity was zero or missing, a load factor of zero was assumed. For boilers with more than one fuel, all applicable fuels used were summed before calculating an overall load factor. For example, if a boiler was reported as using anthracite coal, bituminous coal, and distillate oil, for the "all fuel distribution," all three contributions were summed; for the "all coal distribution," both coal contributions only were summed; for the "all oil distribution," only the distillate oil contribution was included; and the boiler would be entirely omitted from the "all gas distribution." For number of boilers (distribution #1), a count would then be entered in the appropriate table cell, as defined by load factor and boiler capacity. For boiler capacity (distribution #3), the reported capacity would be added to the appropriate table cell. For plant capacity and plant load factor, all boilers reported within the plant using applicable fuel(s) were summed to calculate the capacity, and all applicable fuel(s) used were summed before being divided by 8760 and the

plant capacity to determine plant load factor. In addition, a separate tally of number of boilers was made under the plant load factor and plant capacity entry; when all data had been processed and entered in the tables, the number of boilers accumulated in each cell was divided by the number of plants in the corresponding cell of distribution #2 to produce an average number of boilers per plant (distribution #5).

C. JOINT DISTRIBUTIONS BY CAPACITY AND STACK HEIGHT

In this distribution, the stack was identified by code and the total capacity it "served" or vented was summed in order to determine the cell in which the count was placed. In some cases, the data indicated that one "stack" identity code was reported with different heights for different boilers within a plant; in these cases, each different stack height was assumed to identify a different stack. This is distribution #6.

D. JOINT DISTRIBUTIONS BY CAPACITY AND FUEL SULFUR CONTENT

In these distributions, capacities for boilers and plants were handled exactly as for the distributions described in Section B. Fuel sulfur content for each fuel is reported as a weight percent. When a boiler had multiple fuels or a plant had more than one fuel, however, it was necessary to calculate an average fuel sulfur content. This was done by multiplying the total amount of each applicable fuel used (in Btu equivalents) by its reported weight percent, summing the resultant products and dividing the sum by the sum of fuel used. The resulting weighted average sulfur content was then used to assign a table cell along with the appropriate capacity. Boiler and plant counts and capacities were added to the selected table cells as described in Section B for distributions 7-10. Total sulfur emitted in tons was calculated by converting reported NEDS fuel used to a weight value for liquid and gaseous fuels and multiplying by the fractional sulfur content reported. The results

were added to appropriate table cells to give distributions 11 and 12. Total fuel used by appropriate type was calculated as 10^{12} Btu for the reported year and summed into the appropriate table cell to produce distributions 13 and 14.

E. MARGINALS AND CUMULATIVE MARGINALS

The marginals and cumulative marginals of these tables are intended to be useful sums allowing quick analysis of the distribution. For that reason, and because of the definition of "reliability" of data by its position in the table, as discussed below, several "marginals" have been produced for joint distributions involving load factor (distributions 1-5), and fewer for the rest.

1. Joint Distributions Involving Load Factor

The column labeled "Total < 1.00" by load factor is a column of row totals for all data for plants or boilers with load factors below 1.00. The column labeled "Row Total" is for all plants or boilers. The column labeled "Cumtot < 1.00" is only for those data that were considered "reliable" — load factors less than one but greater than zero, and capacities greater than zero. Load factors of zero (no reported capacity or no reported fuel use), capacities of zero (missing data), and load factors greater than or equal to unity (incompatible fuel use/capacity reported) were assumed to result from data reporting errors for the purpose of preparing this column. The "Cumtot All" column contains a cumulative total, row by row, of all data for all capacities greater than zero and all load factors.

The row labeled "Column Totals" contains the total for each of the columns for which a value appears. (It is meaningless to produce a column total of a cumulative total.) The row labeled "Cumul. Total" begins with a zero under the "Load Factor = 0." column because those are considered unreliable data, but contains cumulative totals of all subsequent columns except for the marginals.

It should be noted here that "reliable data" capacity totals for plants for the distributions may be higher in some cases than those for boilers because the capacities for boilers with zero reported fuel used were included with the plant, and if any boiler in a plant reports fuel use, the calculated load factor is non-zero for the plant, making it "reliable" data under our definition.

2. Joint Distribution Involving Stack Height

In Distribution #6 both zero capacity for a stack and zero stack height are considered "unreliable" data. However, there is no upper limit to stack height, and therefore, a smaller set of marginals and cumulative marginals has been provided than for joint distributions involving load factor. These are: the row total column and column total row, both of which include all data; the cumulative total column, which omits all entries for capacity equal to zero; and the cumulative total row, which omits all entries for stack height equal to zero.

3. Joint Distributions Involving Fuel Percent Sulfur

All table entries and marginals in these data are considered as "reliable" data, since no a priori criteria such as "0 percent sulfur" are available to guide selection of data as "unreliable." The row total marginals are therefore simpler, and consist only of a column of row totals for all data, and a column of cumulative totals down the rows. Similarly, there are rows of column totals and cumulative totals across the columns.

F. GRAPHICAL DISPLAYS OF DATA

Various graphical displays have been provided in order to give a quick overview of the data. Accompanying each set of tables are plots of the marginals and cumulative marginals as percents by load factor or percent sulfur, as appropriate. The plotting of the marginals is done with a variable percentage scale in order to give maximum definition. Cumulative marginals are on a 0 to 100 percent scale.

Each set of tables that includes joint distributions 1-4 is accompanied by a plot of cumulative percent capacity of boilers and plants versus capacity and of cumulative number of boilers and plants versus capacity. In these plots, the capacity axis is logarithmic. These plots display only "reliable" data as defined by 0 < load factor < 1.0 for any boiler or plant included. Each fuel grouping has its own set of these plots, which include only boilers that use the type of fuel in question; however, a boiler which uses, for example, both oil and gas will be included in data for all fuels, all oil, and all gas plots, just as it appears in the joint distributions.

Joint distributions 5 and 6 do not have separate capacity plots included with them. Joint distributions of numbers of boilers per plant by plant capacity and plant load factor are associated with the type of plot described above, namely those for "reliable" data based on load factor range. Joint distributions of number of stacks by capacity served and stack height can be associated with the type of plot described below.

Joint distributions by capacity and fuel sulfur content have associated with them plots of cumulative percent of numbers of boilers and plants versus capacity and cumulative percent of boiler and plant capacity versus capacity, plotted on the same scale as the others described above. In these cases, however, all plants and boilers are counted, since all are assumed "reliable" for the purposes of these distributions. There are significant counts shown of boilers and plants that have either zero capacity or zero load factor but non-zero capacity, and these plots can be compared with the plots accompanying joint distributions by load factor to "see" the difference between all data and the data we defined as "reliable" by load factor value.

G. KEYS TO USE OF TABLES AND GRAPHS

The page indicators for the tables and graphs are intended to make it easy to find the particular joint distribution desired. Each page is identified by a four-character sequence $a_1a_2n_1 - n_2$ where a_i's are letters and n_i's are numbers. The pages are in ascending alphabetic sequence for the a_2's and ascending numeric sequence for the n_i's from left to right. The a_i's and n_i's have the following meanings:

a_1 = I for industrial boilers

a_1 = C for commercial-institutional boilers

a_2 = A for all fuels

a_2 = C for coal-fired boilers only

a_2 = G for gas-fired boilers only

a_2 = O for oil-fired boilers only

n_1 = 1 for number of boilers or plants by capacity and load factor

n_1 = 2 for capacity of boilers or plants by capacity and load factor

n_1 = 3 for number of boilers or plants by capacity and load factor

n_1 = 4 for capacity of boilers or plants by capacity and load factor

n_1 = 5 for sulfur emissions of boilers or plants by capacity and load factor

n_1 = 6 for fuel consumption of boilers or plants by capacity and load factor

n_1 = 7 for number of stacks by capacity and load factor

n_1 = 8 for number of boilers per plant by capacity and load factor

n_2 = 1 through 7 for n_1 = 1 through 6

n_2 = 1 through 2 for n_1 = 7 or 8.

Thus, page IC3-1 is industrial coal-fired boilers, number of boilers by boiler capacity and boiler load factor, and follows page IC2-7.

Figure 1 is a complete set of "CA1" pages reduced in size and showing key data entries and some additional explanation. Note that the joint distribution tables with keys are shown as one page each, but appear as <u>two</u> pages each in the Appendix.

Figure 1. Aid to Using the Tables and Graphs

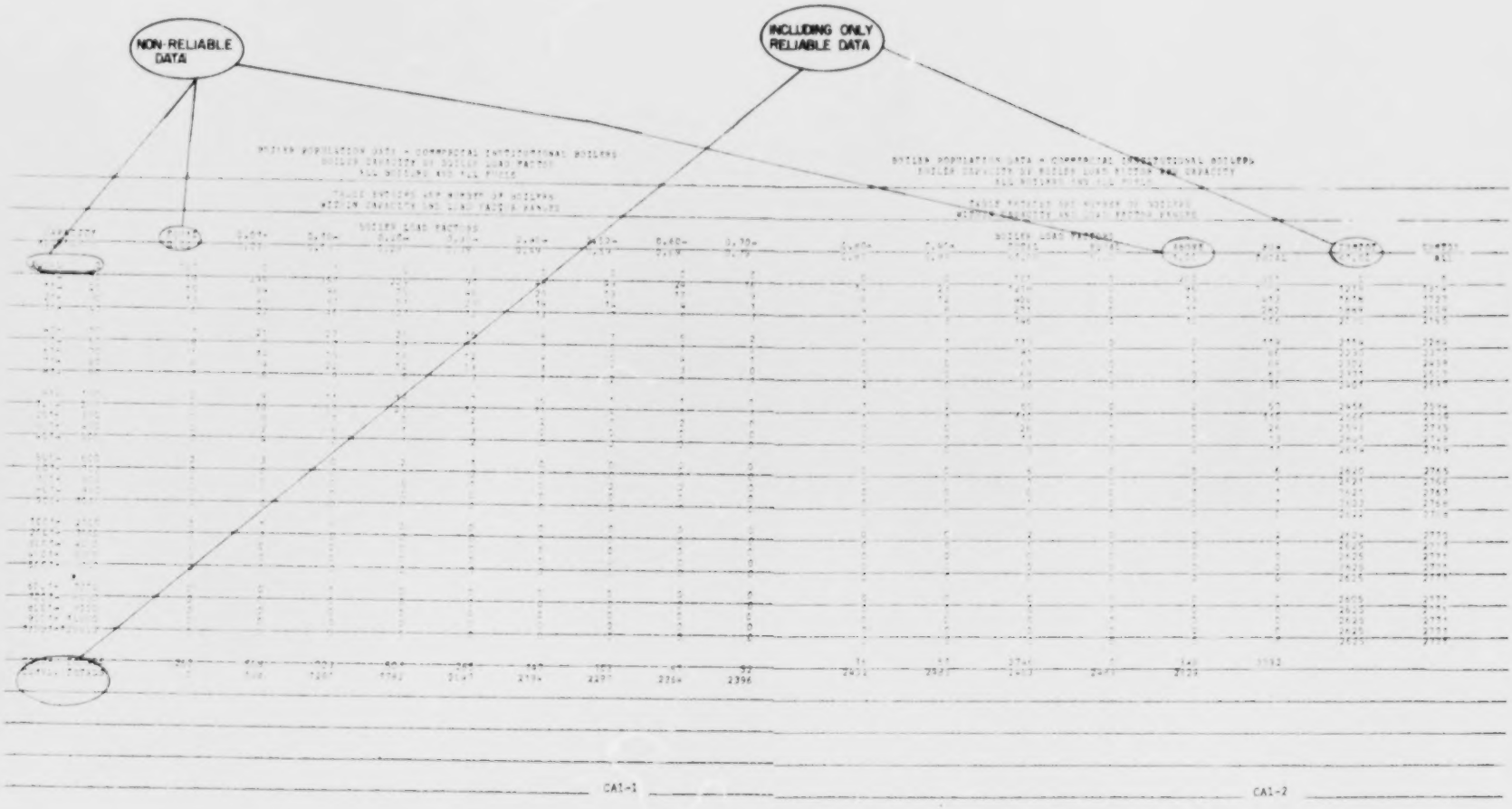


Figure 1. (Continued)

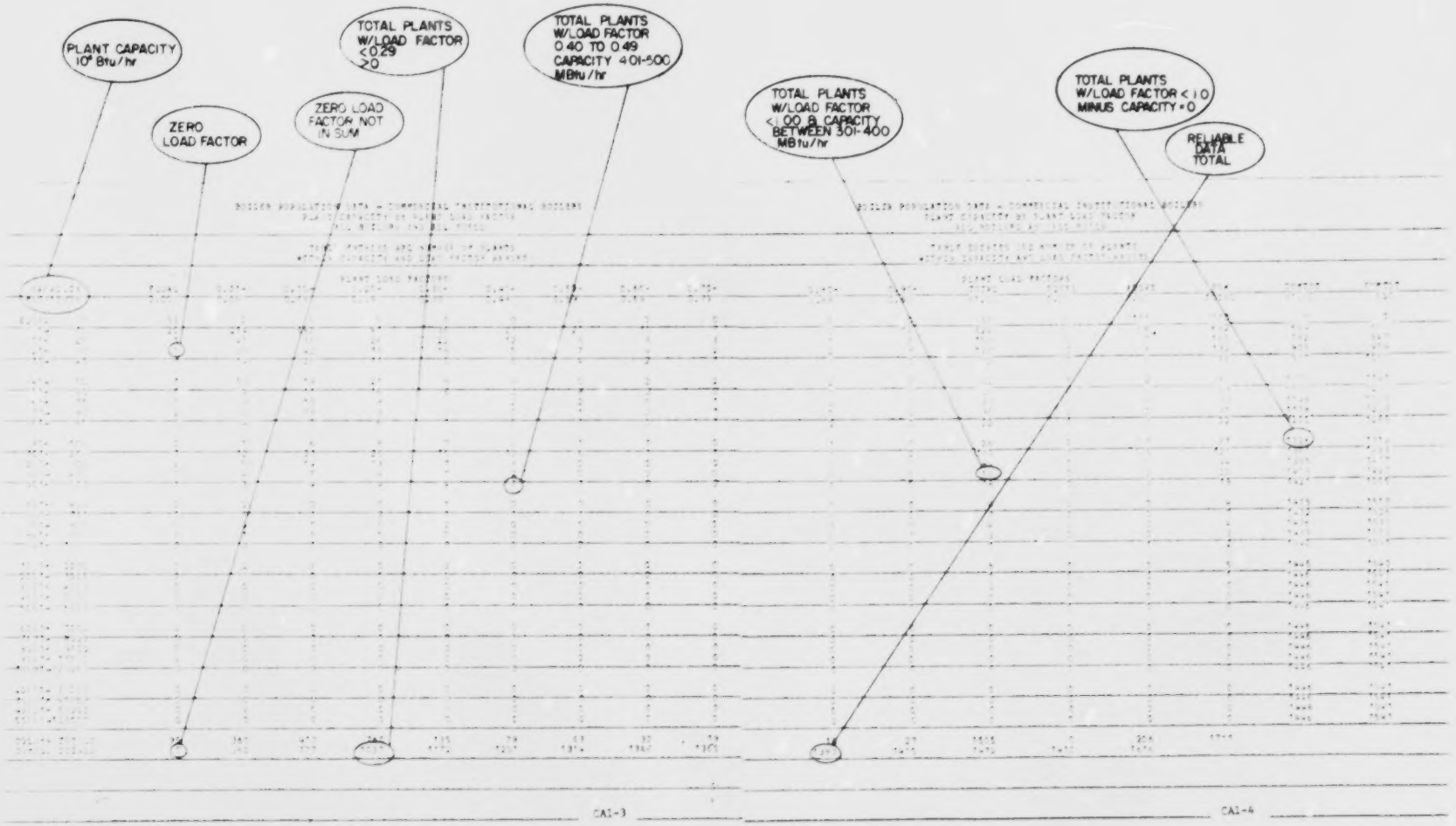


Figure 1. (Continued)

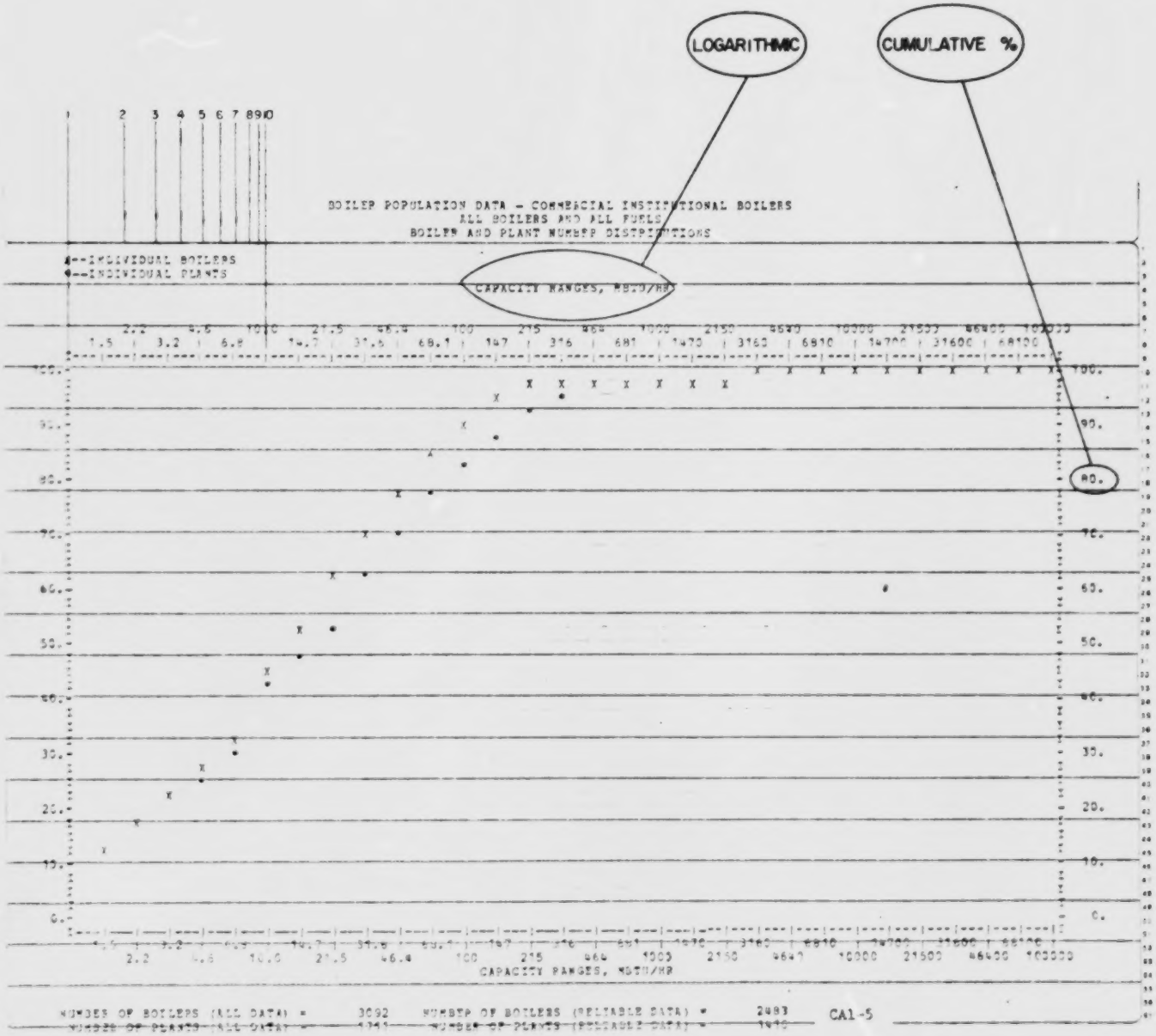
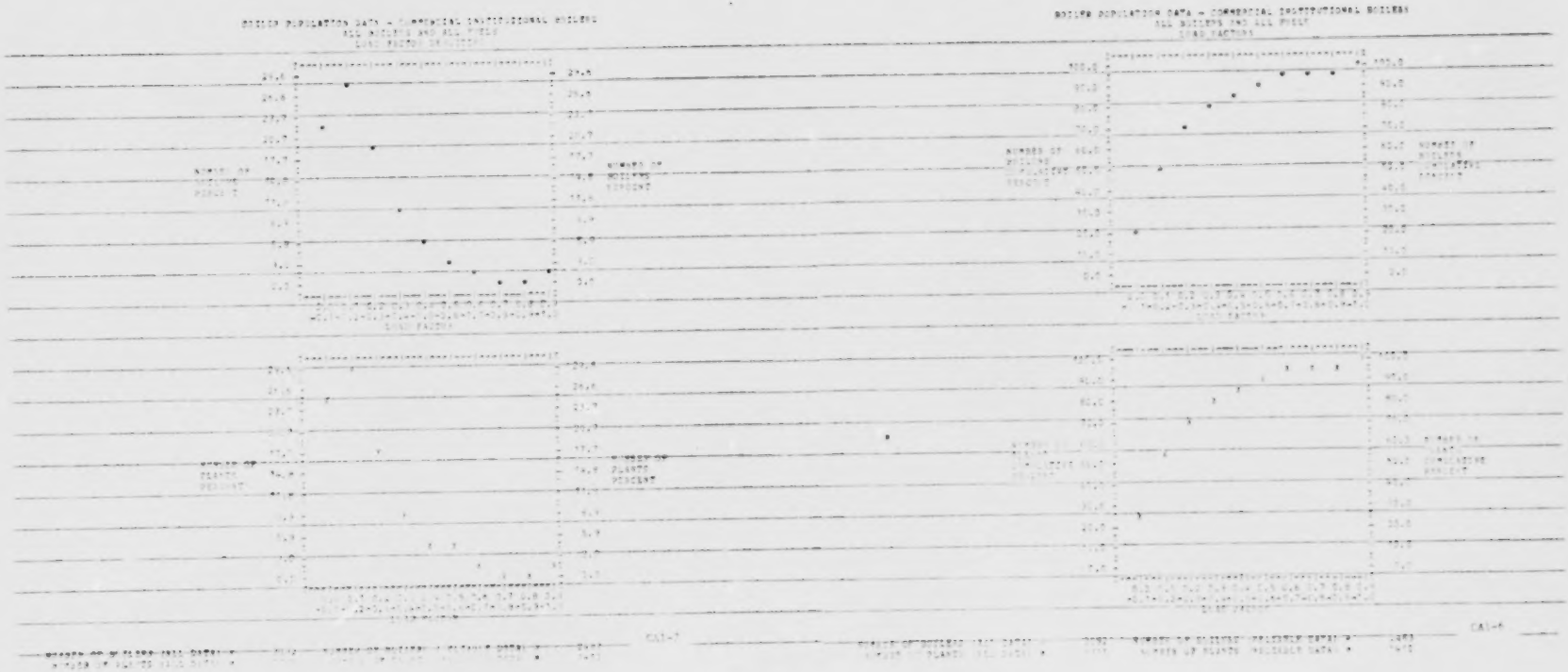


Figure 1. (Continued)



APPENDIX A

(Tables)

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS								
		EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	1074	0	0	0	0	0	0	0	0
1-	10	247	268	389	361	221	215	136	96	89
11-	20	114	145	179	218	190	112	74	65	56
21-	30	75	69	113	108	112	95	70	50	41
31-	40	29	47	81	94	82	42	42	28	35
41-	50	36	52	61	69	80	54	32	34	39
51-	60	28	28	56	63	60	53	25	41	22
61-	70	13	29	33	61	31	27	22	26	23
71-	80	18	22	41	47	34	51	33	34	23
81-	90	8	23	37	38	22	34	16	20	4
91-	100	23	23	31	37	44	33	21	13	22
101-	200	51	91	112	146	157	143	89	119	95
201-	300	29	38	34	42	31	52	40	30	33
301-	400	7	17	19	20	24	15	18	20	15
401-	500	4	11	1	8	6	7	8	14	2
501-	600	5	12	2	7	8	1	7	1	6
601-	700	1	4	8	2	6	3	2	5	0
701-	800	14	3	1	0	0	0	1	5	3
801-	900	1	2	2	0	0	2	3	1	0
901-	1000	0	2	0	0	0	0	1	0	0
1001-	2000	0	9	7	5	2	0	5	1	3
2001-	3000	0	2	0	1	0	0	1	1	1
3001-	4000	0	3	0	0	0	0	2	0	1
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	1	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	1	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		1781	906	1203	1407	1100	930	648	648	525
CUMUL. TOTALS		0	906	2109	3516	4616	5546	6252	6898	7421

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80- 0.89	0.90- 0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	FOR TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	1078	0	510	1588	0	0
1-	10	81	84	2217	0	446	2663	2217	2663
11-	20	38	42	1272	0	163	1435	3489	4098
21-	30	30	27	850	0	100	950	4339	5048
31-	40	32	33	595	0	85	680	4934	5728
41-	50	31	22	510	0	86	596	5444	6324
51-	60	26	26	428	0	46	474	5872	6798
61-	70	17	20	342	0	34	376	6174	7134
71-	80	12	17	342	0	43	385	6516	7519
81-	90	10	14	234	0	20	254	6750	7773
91-	100	15	14	276	0	26	302	7026	8075
101-	200	102	73	1178	0	124	1302	8204	9377
201-	300	29	41	408	0	37	445	8622	9822
301-	400	13	24	148	0	17	205	8810	10027
401-	500	9	7	77	0	9	96	8887	10123
501-	600	2	2	50	0	3	62	8948	10185
601-	700	12	3	46	0	5	51	8942	10236
701-	800	3	1	31	0	2	33	9023	10269
801-	900	0	1	12	0	5	17	9035	10286
901-	1000	1	1	5	0	0	5	9040	10291
1001-	2000	7	3	42	0	4	46	9082	10337
2001-	3000	0	2	8	0	1	9	9090	10346
3001-	4000	0	0	4	0	1	5	9094	10351
4001-	5000	0	0	0	0	1	1	9094	10352
5001-	6000	0	0	1	0	0	1	9095	10353
6001-	7000	0	0	0	0	0	0	9095	10353
7001-	8000	0	0	0	0	0	0	9095	10353
8001-	9000	0	0	1	0	0	1	9096	10354
9001-	10000	0	0	0	0	1	1	9096	10355
10001-100000		0	0	0	0	0	0	9096	10355
COLUMN TOTALS		485	487	10174	0	1869	12043		
CUMUL. TOTALS		7906	8393	8393	8393	10262			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL 0	383	0	0	0	0	0	0	0	0
1- 10	71	144	196	183	93	109	72	39	46
11- 20	39	52	68	95	77	43	31	32	24
21- 30	26	28	56	72	41	33	28	21	13
31- 40	10	17	54	52	40	40	12	17	8
41- 50	10	15	37	37	37	28	17	14	13
51- 60	11	18	19	42	29	19	12	9	13
61- 70	5	13	21	16	21	16	14	9	4
71- 80	9	10	17	22	14	12	13	10	10
81- 90	4	5	20	16	8	12	10	7	3
91- 100	4	8	11	16	19	13	7	4	4
101- 200	28	35	65	79	57	69	48	44	22
201- 300	20	13	33	37	30	40	26	22	20
301- 400	5	16	11	38	21	18	15	12	6
401- 500	5	7	8	14	22	13	9	7	8
501- 600	4	5	6	10	11	9	8	9	2
601- 700	1	5	2	4	8	6	1	8	3
701- 800	2	3	0	4	6	5	1	3	3
801- 900	2	0	5	1	3	3	4	3	2
901- 1000	0	0	1	3	4	0	7	2	3
1001- 2000	4	13	5	10	6	7	13	8	14
2001- 3000	1	5	1	3	5	3	2	4	0
3001- 4000	0	1	0	1	1	0	2	0	1
4001- 5000	0	0	0	1	0	1	0	1	1
5001- 6000	0	0	0	0	0	0	0	2	1
6001- 7000	1	0	0	0	0	1	0	0	1
7001- 8000	0	1	0	0	0	0	0	0	0
8001- 9000	0	1	0	0	0	0	0	0	0
9001- 10000	0	0	0	1	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	645	413	646	757	563	500	349	787	226
CUMUL. TOTALS	0	413	1059	1816	2379	2879	3228	3515	3740

IA1-3

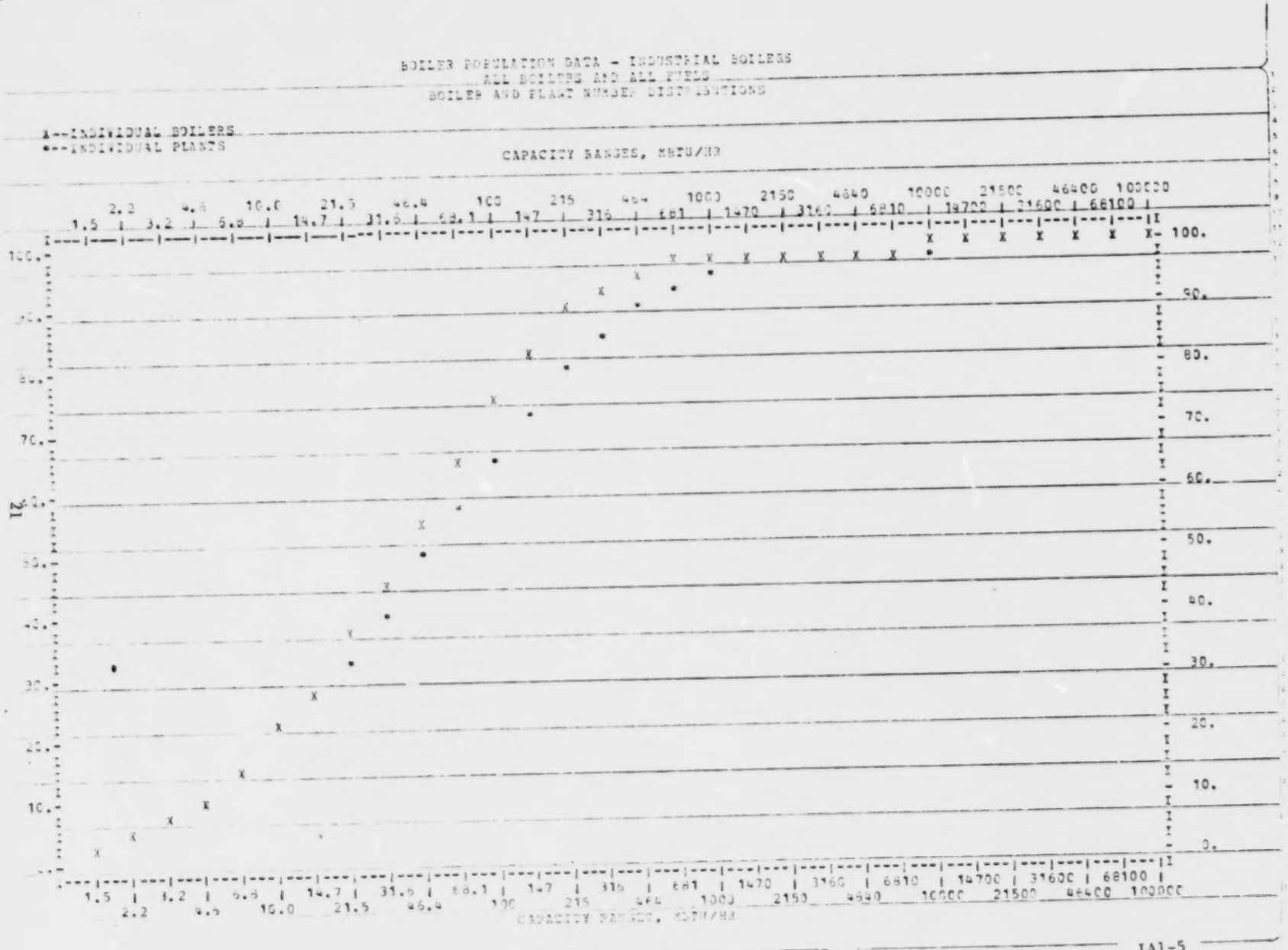
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MCF'S/HR		PLANT LOAD FACTORS 0.60-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMCUT <1.00	CUMCUT ALL
EQUAL	0	0	0	383	0	328	711	0	0
1-	10	35	23	1012	0	204	1216	1012	1216
11-	20	13	27	506	0	65	571	1518	1787
21-	30	14	11	331	0	53	384	1849	2171
31-	40	6	16	272	0	37	309	2121	2480
41-	50	5	7	220	0	25	245	2341	2725
51-	60	6	6	184	0	26	210	2525	2935
61-	70	6	7	134	0	14	146	2677	3081
71-	80	7	11	132	0	12	144	2809	3225
81-	90	3	1	99	0	11	110	2908	3335
91-	100	6	5	87	0	12	103	2995	3438
101-	200	28	19	504	0	63	567	3499	4005
201-	300	15	10	286	0	18	284	3785	4289
301-	400	4	10	161	0	14	175	3960	4464
401-	500	5	5	103	0	8	111	4063	4571
501-	600	7	3	74	0	9	83	4137	4654
601-	700	3	4	48	0	1	49	4186	4703
701-	800	2	4	33	0	6	39	4219	4739
801-	900	0	3	20	0	2	22	4241	4761
901-	1000	2	3	25	0	1	26	4267	4787
1001-	2000	14	10	104	0	11	115	4371	4902
2001-	3000	3	2	29	0	5	34	4400	4936
3001-	4000	1	1	8	0	1	9	4408	4945
4001-	5000	1	0	3	0	1	4	4412	4949
5001-	6000	0	0	3	0	0	3	4415	4952
6001-	7000	0	0	3	0	0	3	4418	4955
7001-	8000	1	0	3	0	0	3	4421	4958
8001-	9000	0	0	1	0	1	2	4423	4960
9001-	10000	0	0	0	0	0	0	4423	4960
10001-	20000	0	0	0	0	0	0	4423	4960
20001-	30000	0	0	0	0	0	0	4423	4960
30001-	40000	0	0	0	0	0	0	4423	4960
40001-	50000	0	0	0	0	0	0	4423	4960
50001-	100000	0	0	0	0	0	0	4423	4960
COLUMN TOTALS		160	189	4771	-	972	5743		
CUMUL. TOTALS		3936	4126	4126	4125	5033			

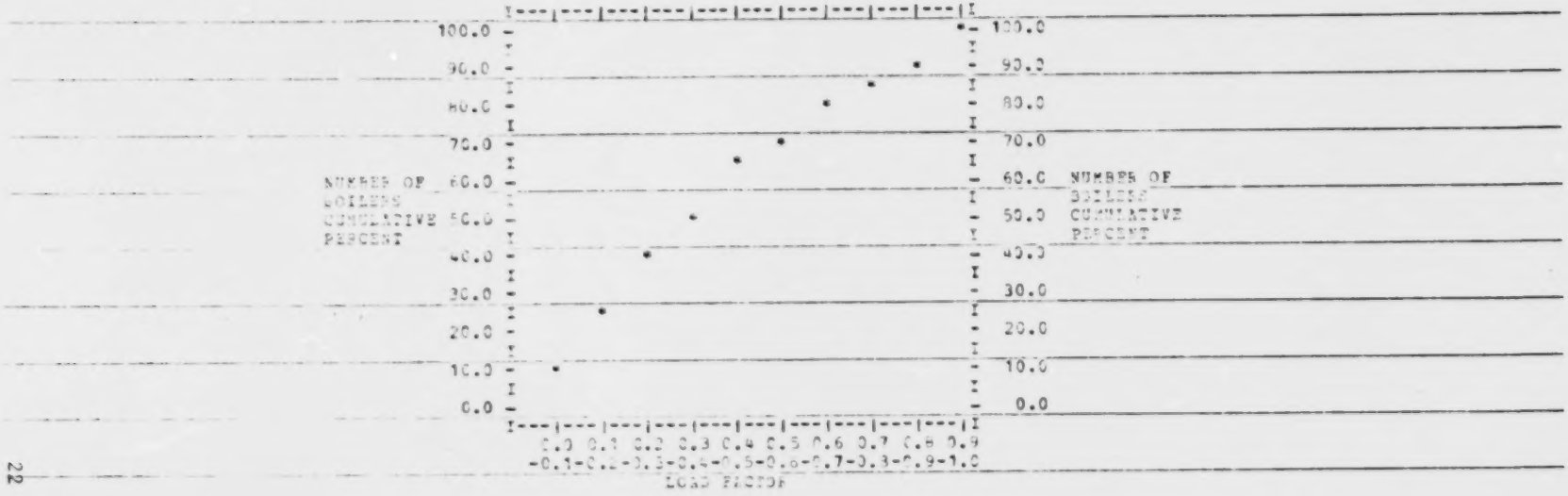
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

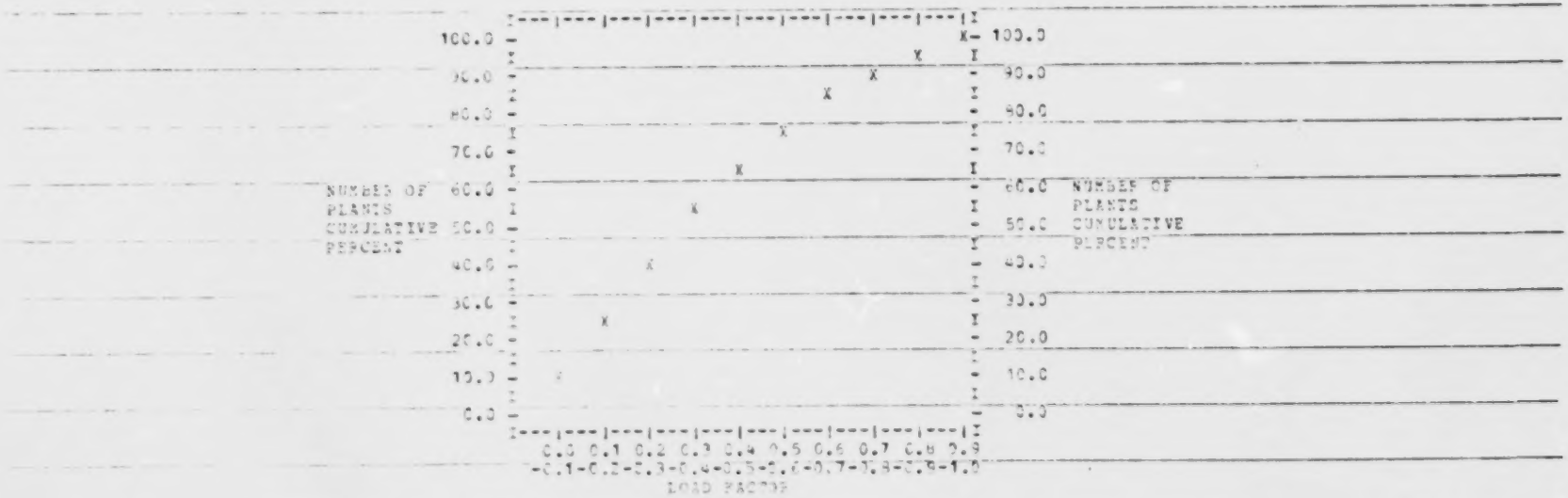
X---INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 12043 NUMBER OF BOILERS (RELIABLE DATA) = 9393
NUMBER OF PLANTS (ALL DATA) = 5083 NUMBER OF PLANTS (RELIABLE DATA) = 4726

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTORS

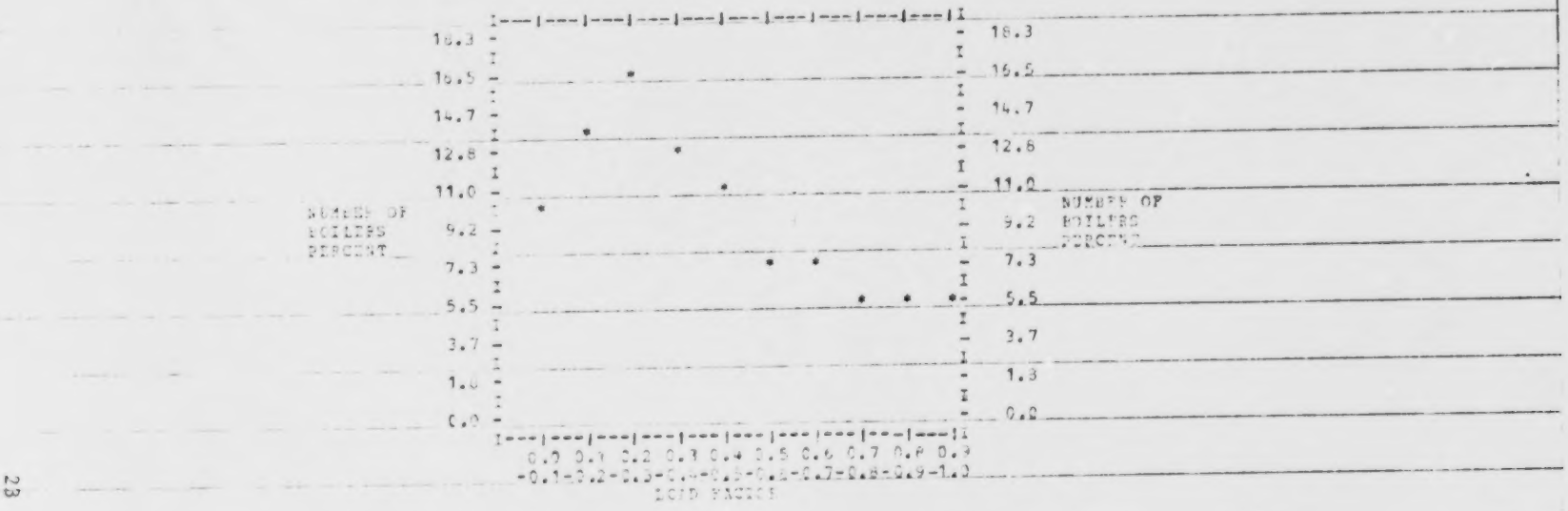


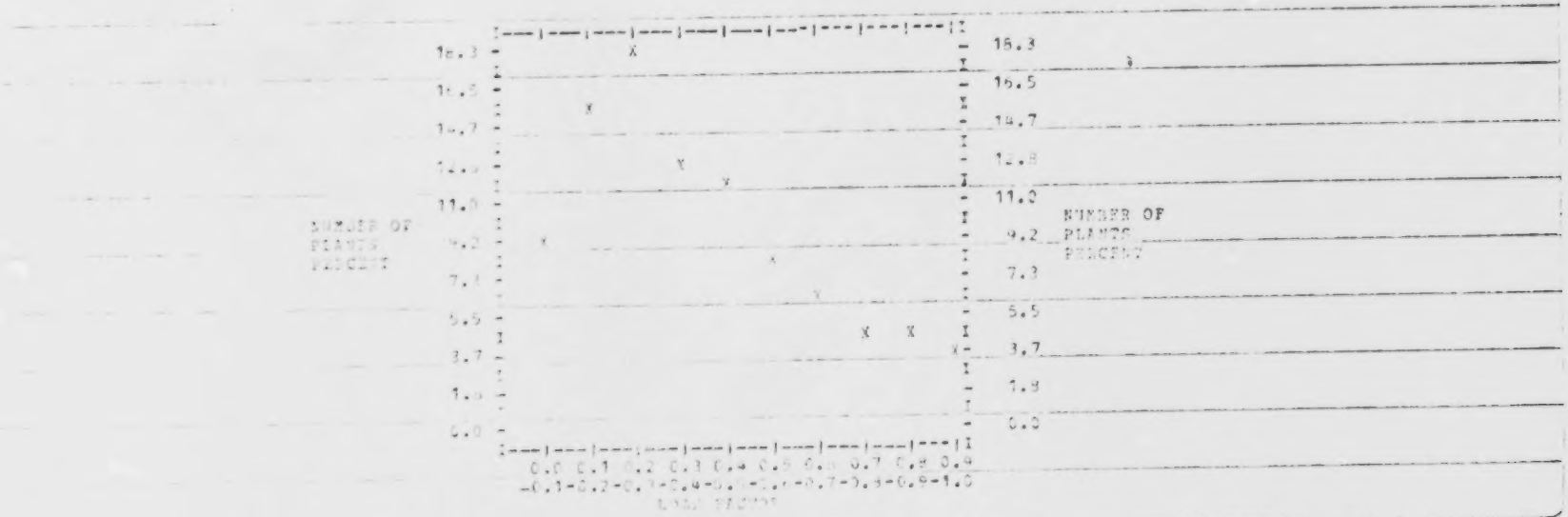


NUMBER OF BOILERS (ALL DATA) = 1204
NUMBER OF PLANTS (ALL DATA) = 869

NUMBER OF BOILERS (RELIABLE DATA) = 838
NUMBER OF PLANTS (RELIABLE DATA) = 426

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL FIRING AND ALL FUELS
LOAD FACTOR DEFINITION





IA1-7

BOILER POPULATION DATA - INDUSTRIAL POWER
BOILER CAPACITY BY ROTOR LOAD FACTOR AND CAPACITY
AND CAPACITY AND LOAD FACTORS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY RANGE KLBS/HR	EQUAL 0.000	0.000 < 0.250	0.250 < 0.500	0.500 < 0.750	0.750 < 1.000	1.000
EQUAL 0	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	1112.	1080.	753.	492.	536.
11- 20	1200.	1255.	1633.	2960.	1720.	1319.	673.
21- 30	1717.	2224.	3467.	2972.	1950.	1281.	1056.
31- 40	1434.	1746.	2511.	2644.	1776.	1281.	1056.
41- 50	1646.	1949.	2834.	3214.	1541.	990.	1238.
51- 60	1646.	2447.	3214.	3774.	2001.	1574.	1646.
61- 70	1605.	1587.	3585.	3943.	1944.	2007.	1248.
71- 80	881.	2162.	4014.	2637.	1769.	1723.	1527.
81- 90	1176.	1944.	3172.	2599.	1766.	2661.	1769.
91- 99	702.	1746.	3267.	1814.	2646.	2598.	346.
101- 200	2201.	4433.	7241.	4112.	2644.	1274.	2151.
201- 300	7155.	15978.	26641.	22140.	13230.	18923.	13002.
301- 400	7155.	8205.	10655.	7380.	13230.	9663.	8567.
401- 500	2400.	8336.	7373.	5974.	4234.	7076.	5421.
501- 600	1745.	4913.	3946.	2799.	3021.	3702.	6555.	616.
601- 700	2196.	6706.	11277.	3810.	5292.	4063.	600.	3267.
701- 800	1443.	5396.	5396.	1890.	3866.	1891.	3600.	0.
801- 900	1022.	2617.	800.	0.	0.	740.	3594.	2356.
901- 1000	0.	1752.	1944.	0.	0.	1755.	550.	840.	0.
1001- 2000	0.	1488.	0.	0.	0.	0.	930.	0.	0.
2001- 3000	0.	13507.	16109.	6366.	2926.	0.	6946.	7477.	4025.
3001- 4000	0.	4500.	0.	2250.	0.	0.	2940.	2996.	2581.
4001- 5000	0.	10620.	0.	0.	0.	0.	0.	0.	3217.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	2693.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	8100.	0.	0.	0.	0.	0.	0.	0.
10001- 15000	0.	0.	0.	0.	0.	0.	0.	0.	0.
15001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
EQUAL TO ALL	47324.	107174.	77674.	90426.	77398.	71311.	66745.	75099.	55820.
OTHER ALL	0.	107375.	185822.	275376.	353266.	424577.	491322.	566421.	622241.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY 1000'S/HR		BOILER LOAD FACTORS 0.80- 0.89	0.90- 0.99	1.00 TOTAL <1.00	1.00 EQUAL 1.00	1.00 ABOVE 1.00	80+ TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	429.	522.	10962.	0.	1861.	12823.	10962.	12823.
11-	20	573.	954.	13544.	0.	2530.	22074.	35506.	34897.
21-	30	1050.	648.	21372.	0.	2515.	24487.	57478.	59384.
31-	40	1196.	1201.	21618.	0.	3086.	24694.	79096.	84078.
41-	50	1475.	1822.	23775.	0.	3840.	27655.	97661.	111733.
51-	60	1487.	1514.	24388.	0.	2627.	27015.	122249.	138748.
61-	70	1119.	1333.	19923.	0.	2177.	22100.	142172.	160848.
71-	80	848.	2050.	25999.	0.	2255.	28254.	168171.	190102.
81-	90	877.	1215.	22116.	0.	1691.	23807.	190287.	211959.
91-	100	1409.	1732.	20001.	0.	2503.	24435.	214238.	236394.
101-	200	12910.	15036.	171044.	0.	17447.	180561.	385282.	430949.
201-	300	7047.	10850.	101222.	0.	4032.	110029.	486504.	541175.
301-	400	4471.	4491.	64674.	0.	6932.	72538.	551178.	613711.
401-	500	4156.	3240.	35220.	0.	4161.	39387.	590228.	653098.
501-	600	5174.	1977.	33213.	0.	1656.	34869.	623441.	687966.
601-	700	7623.	2022.	31003.	0.	3224.	33227.	654444.	721193.
701-	800	2239.	870.	23490.	0.	1607.	24977.	678910.	746166.
801-	900	0.	613.	16232.	0.	4264.	14596.	693140.	760760.
901-	1000	1000.	949.	4877.	0.	0.	4877.	698017.	765637.
1001-	2000	10263.	4849.	61062.	0.	4635.	55697.	759279.	831334.
2001-	3000	0.	5529.	13196.	0.	2093.	21256.	772275.	852620.
3001-	4000	0.	0.	13442.	0.	3110.	16347.	785612.	868967.
4001-	5000	0.	0.	0.	0.	4540.	4540.	790152.	874507.
5001-	6000	0.	0.	5068.	0.	0.	5068.	795220.	879575.
6001-	7000	0.	0.	0.	0.	0.	0.	795220.	879575.
7001-	8000	0.	0.	0.	0.	0.	0.	795220.	879575.
8001-	9000	0.	0.	8100.	0.	0.	8100.	795220.	887675.
9001-	10000	0.	0.	0.	0.	9900.	9900.	795220.	897575.
10001-	100000	0.	0.	0.	0.	0.	0.	795220.	897575.
COLUMN TOTALS		88682.	68824.	795220.	0.	97995.	897075.		
1000#. TOTALS		690923.	751751.	751751.	751751.	849746.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY KLB/HR		PLANT LOAD FACTORS								
		EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	330.	580.	842.	830.	469.	562.	404.	199.	234.
11-	20	602.	753.	1056.	1465.	1123.	651.	478.	511.	386.
21-	30	606.	667.	1053.	1030.	1054.	859.	709.	446.	316.
31-	40	341.	607.	1011.	1383.	1414.	1424.	434.	411.	203.
41-	50	457.	640.	1700.	1600.	1713.	1283.	703.	644.	616.
51-	60	604.	1013.	1069.	2302.	1650.	1682.	677.	525.	727.
61-	70	335.	842.	1348.	1053.	1374.	1072.	918.	585.	269.
71-	80	689.	754.	1301.	1612.	1075.	930.	770.	759.	749.
81-	90	343.	432.	1722.	1381.	699.	1034.	854.	505.	252.
91-	100	334.	770.	1081.	1411.	1 35.	1401.	677.	347.	385.
101-	200	3401.	5040.	9400.	11334.	9077.	10234.	7068.	6595.	3135.
201-	300	4683.	3432.	6029.	9122.	7387.	10113.	6483.	5727.	5053.
301-	400	1744.	2430.	4007.	13374.	7486.	9341.	5483.	4.34.	2606.
401-	500	2159.	3122.	3516.	6359.	9847.	5943.	4079.	3103.	3440.
501-	600	2270.	2757.	3214.	5474.	6310.	4911.	5462.	6022.	1126.
601-	700	900.	3300.	1301.	2015.	5179.	3893.	601.	5109.	2029.
701-	800	1600.	2282.	0.	3220.	4504.	3744.	725.	2470.	2392.
801-	900	1602.	0.	0.	0.	2504.	2814.	0.	2.9.	1661.
901-	1000	0.	0.	973.	2044.	5024.	0.	0745.	1943.	2877.
1001-	2000	5209.	17319.	6422.	14034.	8740.	9010.	17389.	11125.	19066.
2001-	3000	2493.	12509.	2686.	8043.	13274.	6993.	4289.	9274.	0.
3001-	4000	0.	3020.	0.	3164.	3840.	0.	6859.	0.	3039.
4001-	5000	0.	0.	0.	4470.	0.	0597.	0.	4499.	4795.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	10250.	9501.
6001-	7000	6615.	0.	0.	0.	0.	0502.	0.	0.	6823.
7001-	8000	0.	7710.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	8100.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	10000.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
CAPACITY TOTALS		37579.	81408.	97341.	110529.	94703.	94833.	73995.	76899.	67035.
BOILER TOTALS		0.	81208.	138548.	243277.	343640.	438733.	502733.	579632.	646667.

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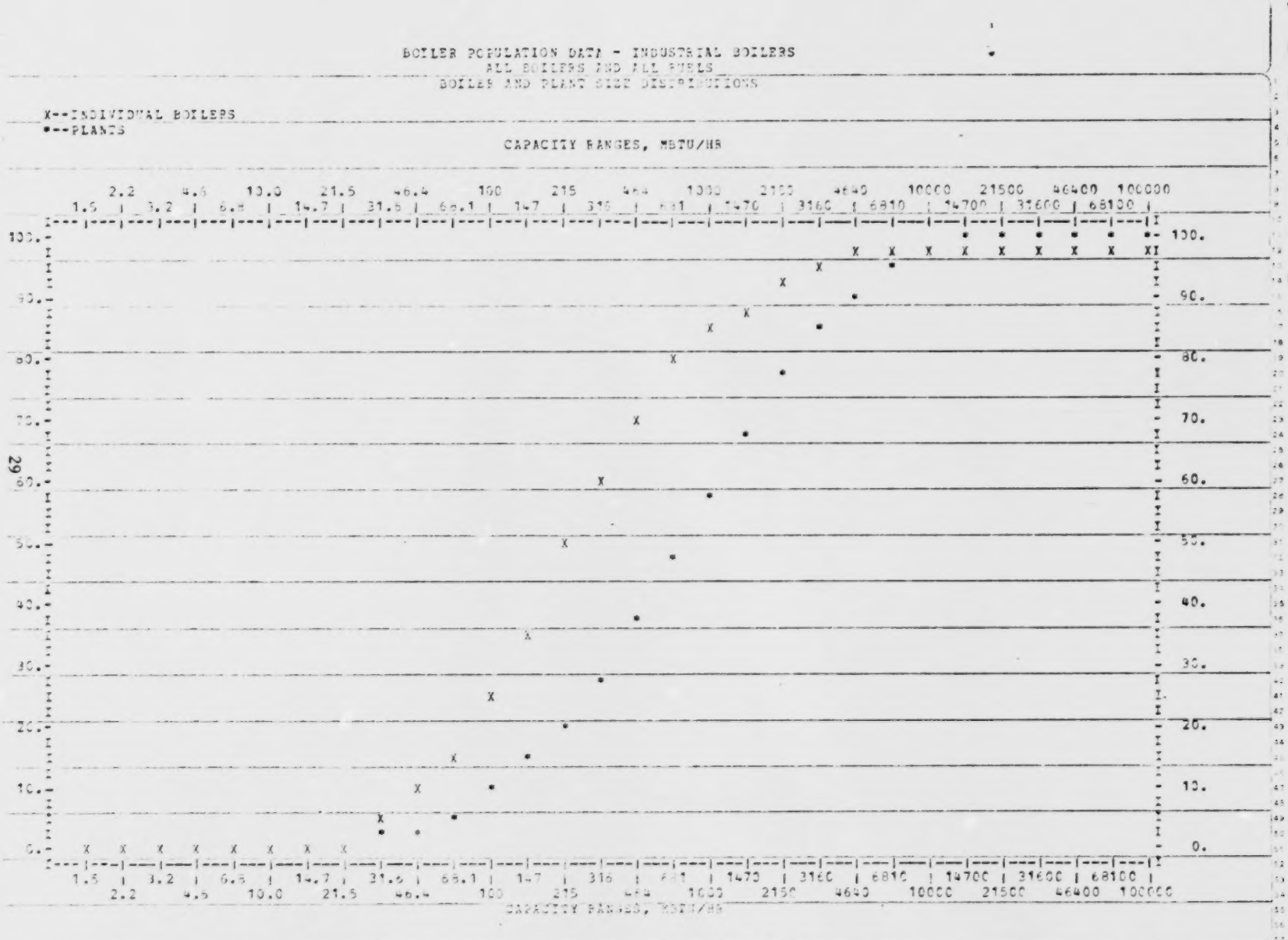
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

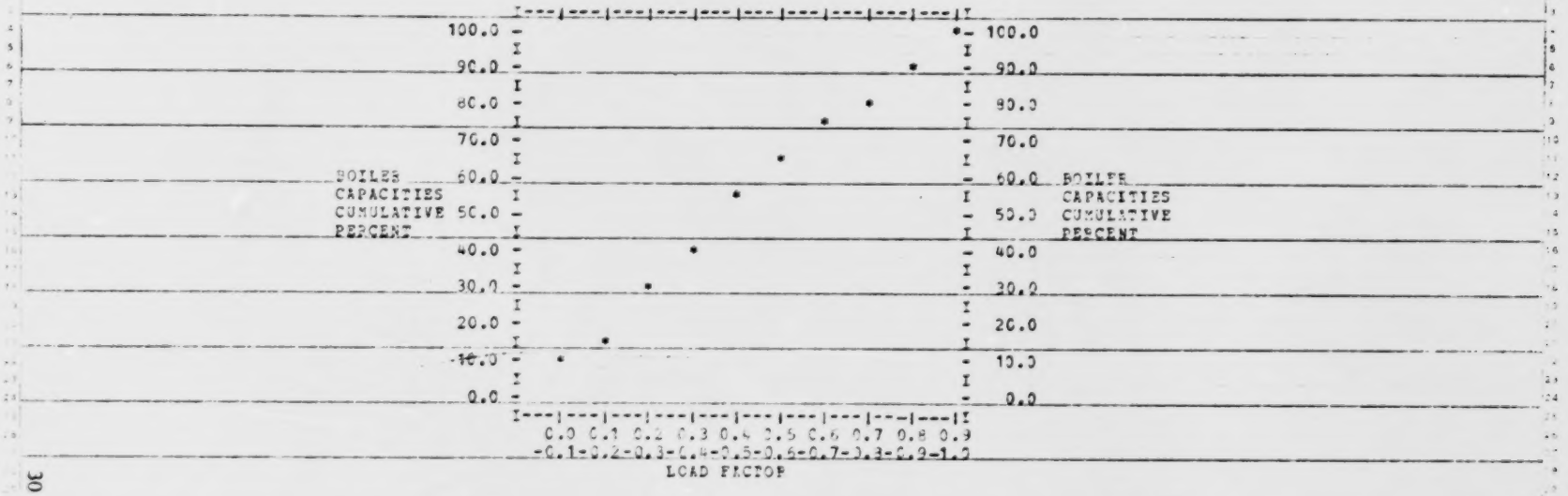
CAPACITY MMBTU/HR		PLANT LOAD FACTORS 0.80-0.89	0.00-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	174.	112.	4714.	0.	824.	5538.	4714.	5538.
11-	20	269.	410.	7778.	0.	1039.	8817.	12492.	14355.
21-	30	367.	274.	8854.	0.	1079.	10033.	21446.	24388.
31-	40	218.	504.	9733.	0.	978.	10711.	31179.	35099.
41-	50	280.	311.	10074.	0.	1121.	11195.	41253.	46294.
51-	60	334.	337.	10380.	0.	1443.	11823.	51643.	58127.
61-	70	344.	486.	8694.	0.	924.	9618.	60337.	67745.
71-	80	524.	486.	10033.	0.	885.	10918.	70370.	78663.
81-	90	292.	0.	7630.	0.	926.	8556.	78000.	87219.
91-	100	591.	439.	9345.	0.	1170.	10515.	87345.	97784.
101-	200	4110.	2678.	72800.	0.	9120.	81920.	160200.	179704.
201-	300	3648.	2587.	64832.	0.	8312.	73144.	224953.	249473.
301-	400	3138.	3413.	52284.	0.	6854.	59138.	277237.	308611.
401-	500	2286.	2167.	45962.	0.	3603.	49565.	323308.	360586.
501-	600	3901.	1689.	41147.	0.	4999.	46146.	369455.	406732.
601-	700	2027.	2083.	29457.	0.	603.	30140.	398912.	436872.
701-	800	1441.	2043.	30370.	0.	5438.	35838.	429282.	466710.
801-	900	0.	2554.	41136.	0.	5410.	47314.	470418.	514024.
901-	1000	1882.	2854.	23982.	0.	920.	24918.	494400.	538939.
1001-	2000	18697.	14629.	141627.	0.	15554.	157181.	611935.	676120.
2001-	3000	7517.	5325.	72379.	0.	11498.	83877.	684310.	759993.
3001-	4000	3680.	3258.	26665.	0.	3772.	30437.	711175.	790430.
4001-	5000	5000.	0.	23298.	0.	4540.	27838.	734473.	818268.
5001-	6000	0.	0.	15760.	0.	0.	15760.	750233.	834028.
6001-	7000	0.	0.	19740.	0.	0.	19740.	769973.	853968.
7001-	8000	7397.	0.	15107.	0.	0.	15107.	785080.	869075.
8001-	9000	0.	0.	8100.	0.	0.	8100.	793180.	877175.
9001-	10000	0.	0.	10000.	0.	9900.	19900.	803180.	897075.
10001-	20000	0.	0.	0.	0.	0.	0.	803180.	897075.
20001-	30000	0.	0.	0.	0.	0.	0.	803180.	897075.
30001-	40000	0.	0.	0.	0.	0.	0.	803180.	897075.
40001-	50000	0.	0.	0.	0.	0.	0.	803180.	897075.
50001-	100000	0.	0.	0.	0.	0.	0.	803180.	897075.
COLUMN TOTALS		69242.	60545.	803180.	0.	93895.	897075.		
CUMTOT TOTALS		714959.	765604.	765604.	765604.	859499.			

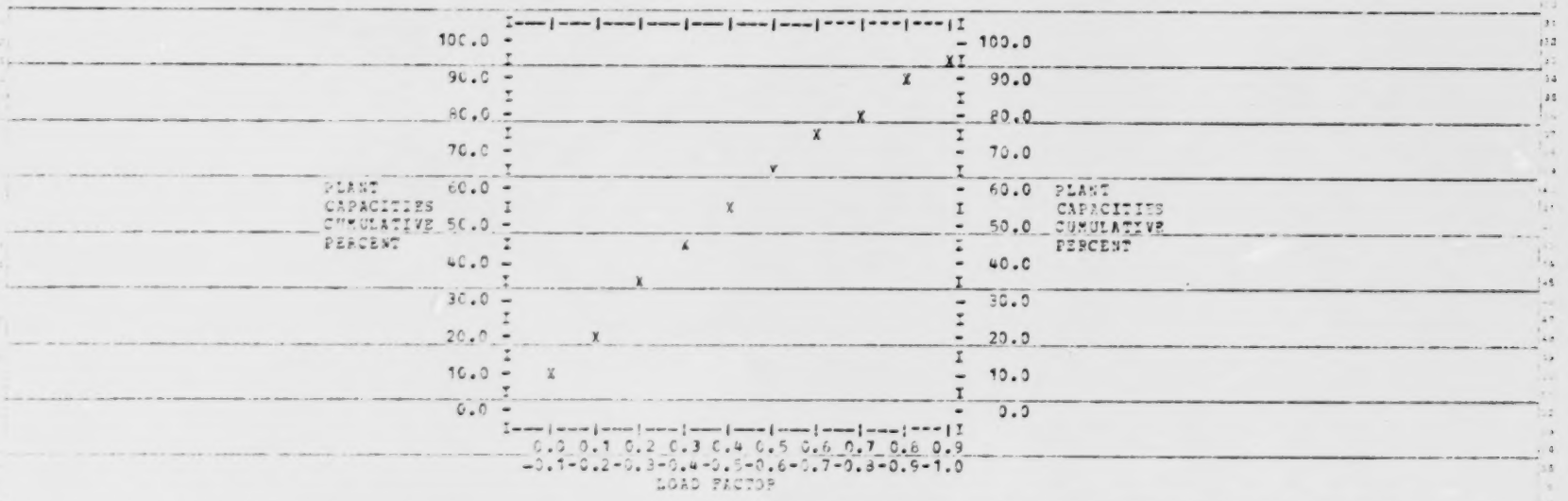
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS



BOILER CAPACITIES (ALL DATA) = 897075. BOILER CAPACITIES (RELIABLE DATA) = 751751.
PLANT CAPACITIES (ALL DATA) = 897075. PLANT CAPACITIES (RELIABLE DATA) = 765604.

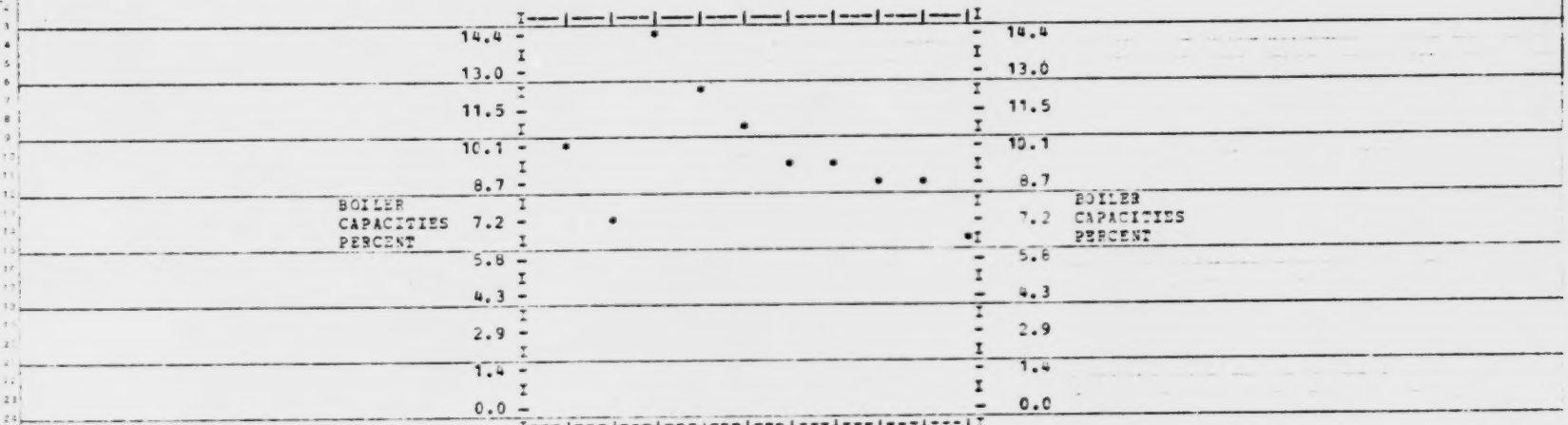
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTORS

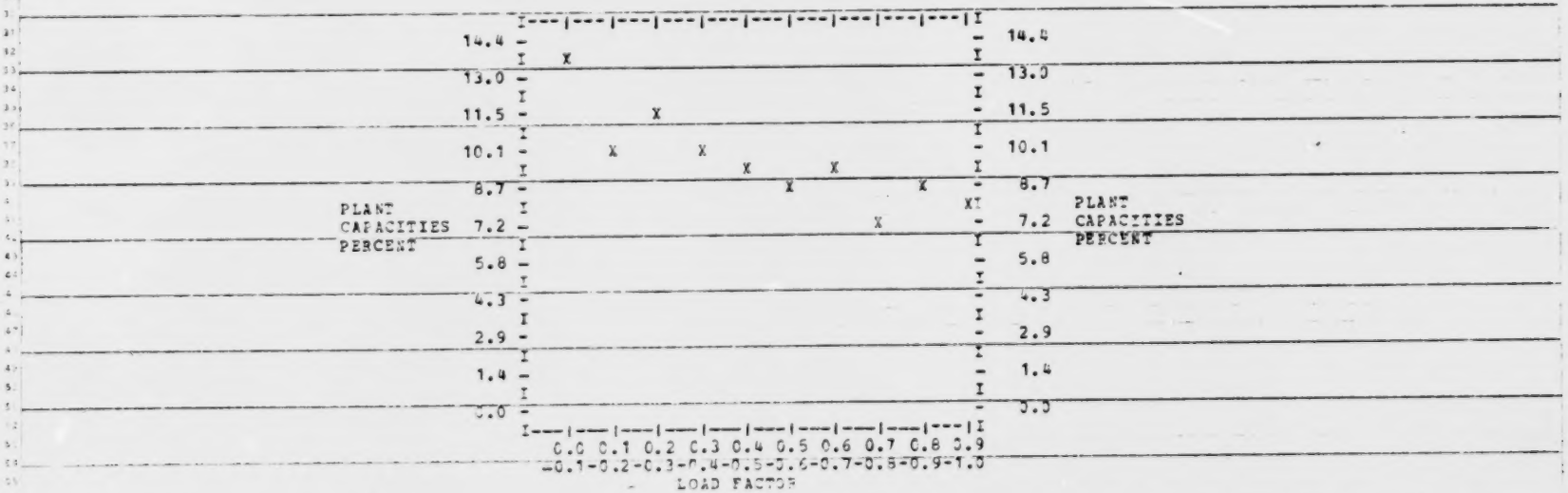




BOILER CAPACITIES (ALL DATA) = 897075. BOILER CAPACITIES (RELIABLE DATA) = 751751.
PLANT CAPACITIES (ALL DATA) = 897075. PLANT CAPACITIES (RELIABLE DATA) = 765604.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTOR DENSITIES





BOILER CAPACITIES (ALL DATA) = 897075. BOILER CAPACITIES (RELIABLE DATA) = 751751.
PLANT CAPACITIES (ALL DATA) = 897075. PLANT CAPACITIES (RELIABLE DATA) = 765604.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	1466	54	22	3	16	26	25	4	12
1-	10	1234	353	135	45	118	95	130	31	97
11-	20	512	162	36	41	96	64	82	27	45
21-	30	242	113	36	13	44	40	57	19	42
31-	40	154	77	24	16	57	49	41	16	51
41-	50	163	88	11	5	38	25	48	12	22
51-	60	129	63	10	16	33	27	44	20	15
61-	70	74	52	7	7	28	19	24	15	15
71-	80	79	47	14	4	29	28	45	20	9
81-	90	43	37	6	5	21	20	23	9	1
91-	100	63	32	5	7	12	23	17	18	15
101-	200	238	159	32	29	92	89	153	56	63
201-	300	106	48	12	12	26	25	33	26	24
301-	400	51	30	6	5	15	9	13	13	8
401-	500	13	22	4	1	2	3	7	3	4
501-	600	19	9	0	2	2	3	3	1	4
601-	700	15	2	0	2	3	0	9	0	3
701-	800	13	1	0	1	0	0	1	3	2
801-	900	5	2	2	2	0	2	0	1	2
901-	1000	2	0	0	0	0	0	0	0	2
1001-	2000	13	9	0	0	3	4	3	0	2
2001-	3000	3	1	0	0	2	0	0	0	0
3001-	4000	1	0	0	0	0	0	0	0	0
4001-	5000	0	1	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	1	0	0	0	0	0	0	0	0
9001-	10000	1	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		4686	1374	362	296	641	551	758	294	438
CUMUL. TOTALS		4686	6060	6422	6718	7279	7830	8588	8882	9320

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MILLION BTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	FOR TOTAL	CUMTOT ALL
EQUAL	0	22	12	15	9	0	2	0	1688	1688
1-	10	178	169	46	20	6	4	2	2663	4351
11-	20	184	120	40	14	5	5	2	1435	5786
21-	30	109	125	21	15	4	6	2	960	6746
31-	40	72	76	26	11	9	1	0	680	7426
41-	50	47	74	26	15	15	0	7	596	8022
51-	60	28	53	20	7	6	3	0	474	8496
61-	70	28	30	21	3	8	1	0	336	8832
71-	80	25	33	30	15	1	2	2	385	9217
81-	90	19	37	28	1	1	3	0	254	9471
91-	100	29	41	37	4	6	0	0	302	9773
101-	200	103	119	103	33	23	5	5	1302	11075
201-	300	32	43	20	14	8	10	6	445	11520
301-	400	13	23	5	6	6	2	0	205	11725
401-	500	8	3	8	4	4	0	0	86	11811
501-	600	6	2	3	4	4	0	0	62	11873
601-	700	3	3	2	1	1	1	0	51	11924
701-	800	0	1	4	1	0	0	0	33	11957
801-	900	0	0	0	0	1	0	0	17	11974
901-	1000	1	0	0	0	0	0	0	5	11979
1001-	2000	6	0	0	5	1	0	0	46	12025
2001-	3000	2	0	0	0	0	1	0	9	12034
3001-	4000	1	0	2	1	0	0	0	5	12039
4001-	5000	0	0	0	0	0	0	1	1	12040
5001-	6000	0	0	0	0	0	0	1	1	12041
6001-	7000	0	0	0	0	0	0	0	0	12041
7001-	8000	0	0	0	0	0	0	0	0	12041
8001-	9000	0	0	0	0	0	0	0	1	12042
9001-	10000	0	0	0	0	0	0	0	1	12043
10001-	100000	0	0	0	0	0	0	0	0	12043
COLUMN TOTALS		921	964	474	193	108	46	27	12043	
CUMUL. TOTALS		10241	11205	11679	11862	11970	12016	12043		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	575	42	11	0	12	18	10	2	8
1- 10	527	114	62	11	42	41	86	20	33
11- 20	227	62	14	10	22	19	34	12	24
21- 30	114	43	14	3	21	11	24	7	23
31- 40	75	44	6	7	14	15	16	8	19
41- 50	63	38	6	6	23	10	13	2	11
51- 60	52	36	4	5	13	13	12	3	13
61- 70	40	18	7	7	7	6	4	9	5
71- 80	31	26	5	3	11	10	12	2	7
81- 90	21	11	3	2	5	9	8	1	4
91- 100	28	19	2	1	7	4	7	4	7
101- 200	111	98	21	17	54	37	40	19	26
201- 300	63	36	3	7	27	19	33	10	12
301- 400	30	29	8	6	18	10	10	12	8
401- 500	15	17	4	2	10	10	10	2	7
501- 600	9	8	1	4	6	5	5	5	8
601- 700	12	9	1	3	2	3	3	2	2
701- 800	8	1	0	1	2	4	4	0	4
801- 900	6	4	2	0	2	1	3	4	1
901- 1000	4	2	2	1	2	0	2	3	0
1001- 2000	20	13	3	5	9	4	7	7	9
2001- 3000	5	3	3	1	3	2	2	2	0
3001- 4000	3	0	0	0	0	2	1	0	1
4001- 5000	0	1	1	1	1	1	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	1	0	0	0	0	0	1	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	1	0	0	0	0	0	0	0	0
9001- 10000	1	1	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	2042	745	187	103	314	255	350	137	232
CUMUL. TOTALS	2042	2787	2974	3077	3391	3646	3996	4133	4365

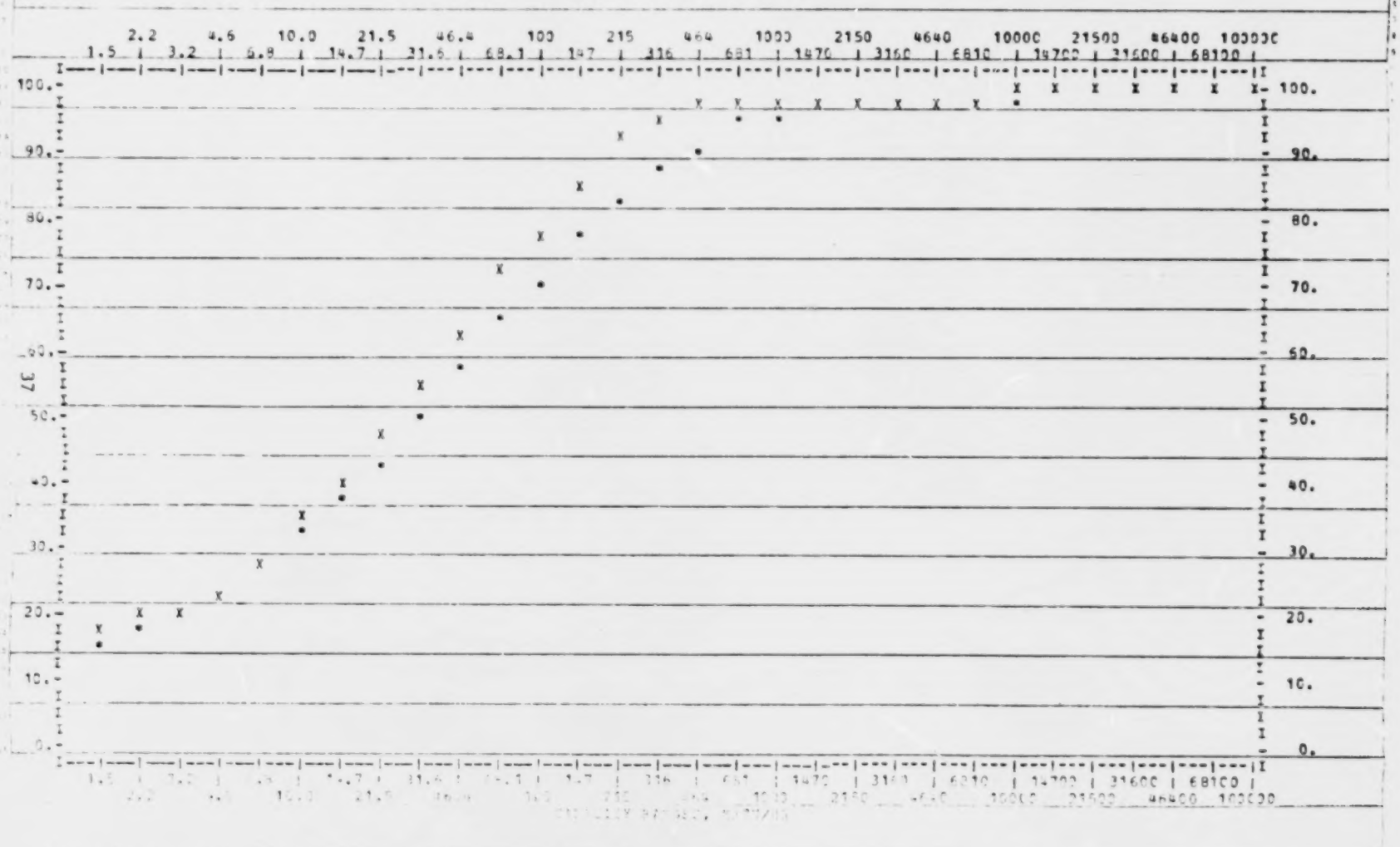
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POP TOTAL	CUMPOP ALL
EQUAL	0	14	9	7	2	0	1	0	711	711
1-	10	72	102	24	9	2	1	0	1216	1927
11-	20	64	55	16	4	2	1	1	571	2498
21-	30	54	55	13	5	1	0	0	394	2892
31-	40	36	39	9	7	2	1	1	299	3191
41-	50	28	30	12	2	1	0	0	245	3436
51-	60	19	26	10	3	0	0	1	210	3646
61-	70	16	17	7	2	0	1	0	146	3792
71-	80	16	12	8	0	0	0	2	144	3936
81-	90	11	11	3	0	2	2	1	100	4036
91-	100	12	9	6	2	1	0	0	109	4145
101-	200	46	53	25	9	7	1	3	567	4712
201-	300	27	16	14	8	2	0	2	284	4996
301-	400	14	12	13	1	3	1	0	175	5171
401-	500	14	5	11	2	2	0	0	111	5282
501-	600	14	7	6	1	0	0	0	83	5365
601-	700	2	4	2	1	0	0	0	46	5411
701-	800	3	8	2	0	0	1	0	39	5450
801-	900	3	1	2	1	0	1	1	32	5482
901-	1000	3	4	2	0	0	1	0	26	5508
1001-	2000	17	9	7	2	1	0	3	115	5623
2001-	3000	4	2	1	1	2	1	1	34	5657
3001-	4000	1	0	1	0	0	0	0	9	5666
4001-	5000	0	0	0	0	1	0	0	6	5672
5001-	6000	2	0	0	0	0	0	1	3	5675
6001-	7000	0	0	0	0	0	0	1	3	5678
7001-	8000	0	1	0	1	0	0	0	2	5680
8001-	9000	0	0	0	0	0	0	0	1	5681
9001-	10000	0	0	0	0	0	0	0	2	5683
10001-	20000	0	0	0	0	0	0	0	0	5683
20001-	30000	0	0	0	0	0	0	0	0	5683
30001-	40000	0	0	0	0	0	0	0	0	5683
40001-	50000	0	0	0	0	0	0	0	0	5683
50001-	100000	0	0	0	0	0	0	0	0	5683
COLUMN TOTALS		492	492	213	63	29	13	16	5683	
CUMUL. TOTALS		4857	5349	5562	5625	5654	5667	5683		

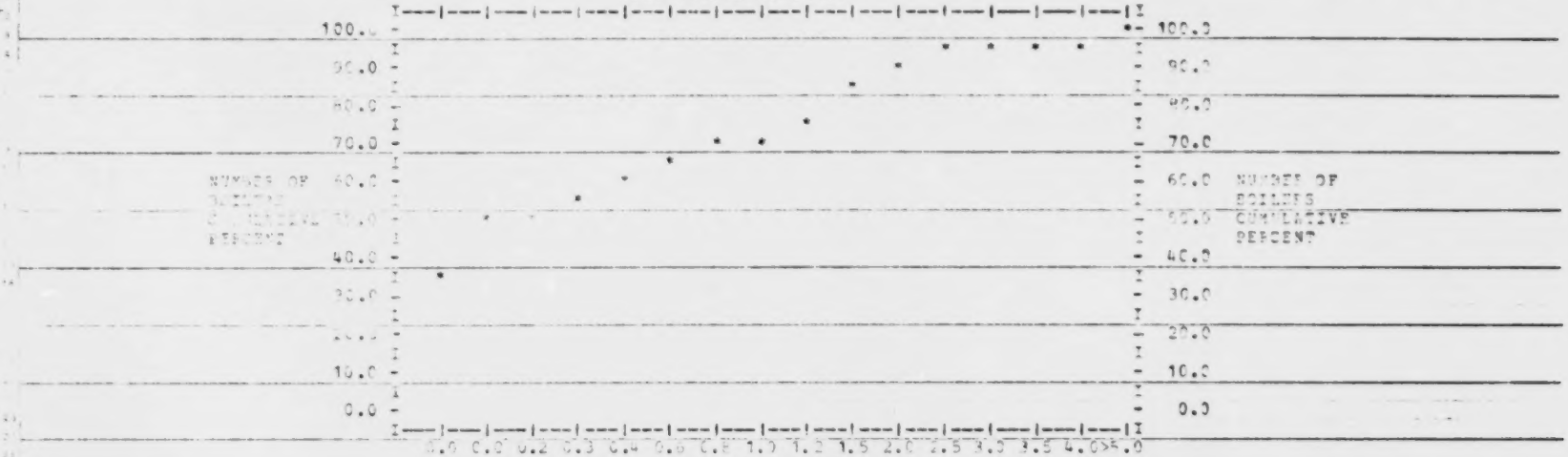
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

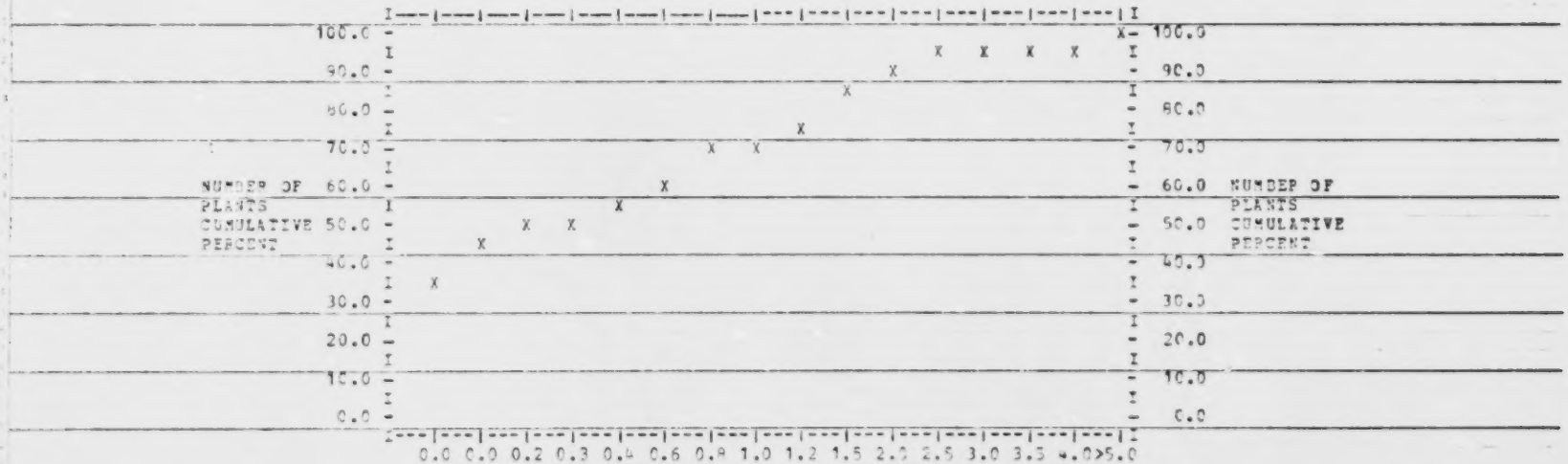
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 12043
NUMBER OF PLANTS (ALL DATA) = 5483

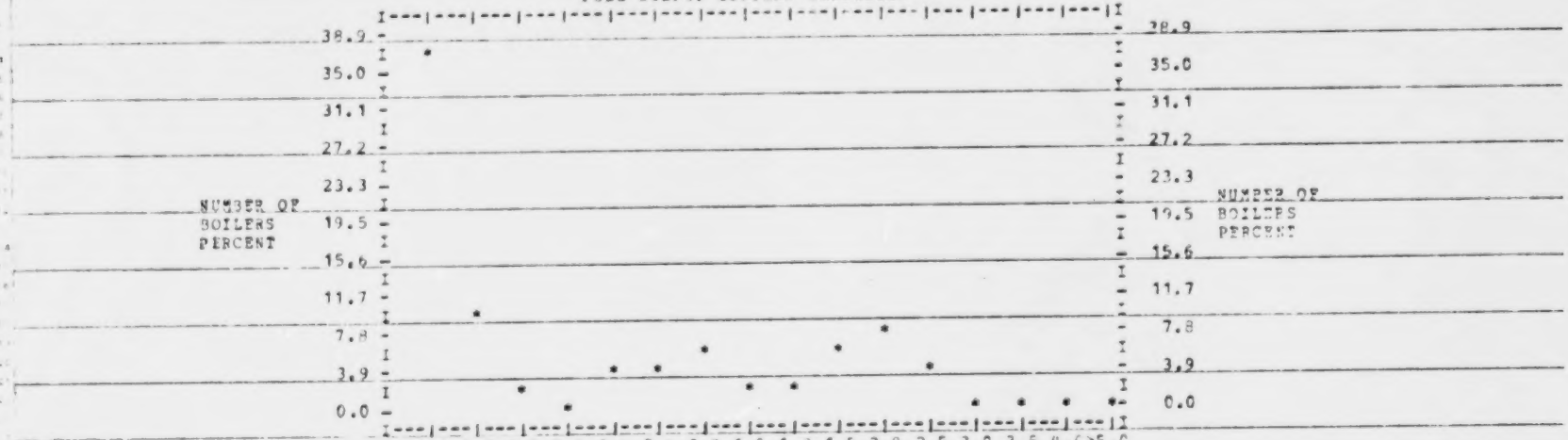
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS

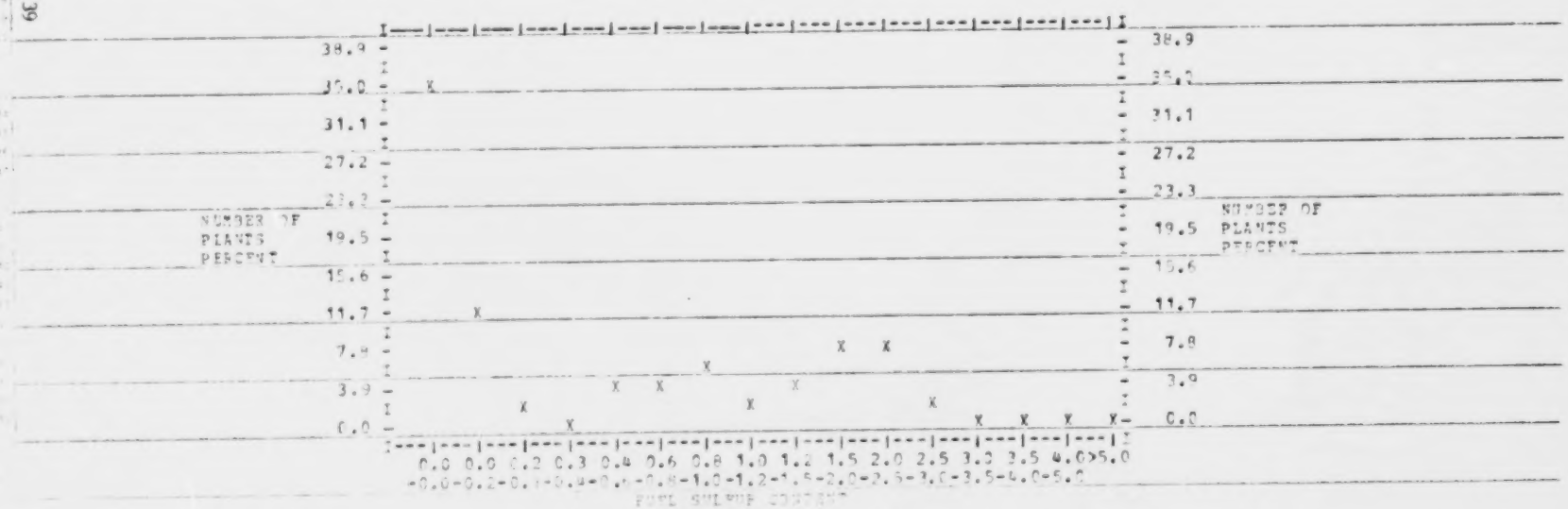




NUMBER OF BOILERS (ALL DATA) = 12043
NUMBER OF PLANTS (ALL DATA) = 5663

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 14043
NUMBER OF PLANTS (ALL DATA) = 5607

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	5805.	1663.	485.	201.	577.	490.	608.	155.	490.
11- 20	7830.	2434.	572.	596.	1490.	1042.	1264.	436.	672.
21- 30	7211.	2995.	925.	330.	1240.	1038.	1475.	490.	1090.
31- 40	5576.	2791.	890.	587.	2063.	1778.	1493.	560.	1830.
41- 50	7567.	4073.	512.	224.	1761.	1141.	2216.	555.	1028.
51- 60	7390.	3541.	563.	910.	1869.	1568.	2534.	1120.	833.
61- 70	4861.	3696.	459.	480.	1841.	1280.	1599.	963.	985.
71- 80	6019.	3725.	1057.	313.	2215.	2081.	3443.	1525.	682.
81- 90	3708.	3159.	514.	435.	1820.	1713.	1995.	784.	84.
91- 100	6158.	3143.	483.	679.	1178.	2230.	1665.	1721.	1465.
101- 200	34813.	22778.	4486.	4227.	13384.	13289.	22470.	8426.	9236.
201- 300	26470.	11845.	2819.	3137.	6153.	6266.	7992.	6607.	6160.
301- 400	18045.	10392.	2076.	1747.	5413.	3214.	4606.	4713.	2676.
401- 500	5729.	9973.	1862.	435.	962.	1374.	3280.	1451.	1865.
501- 600	10844.	5129.	0.	1060.	1055.	1681.	1791.	504.	2254.
601- 700	9986.	1370.	0.	1281.	1905.	0.	5658.	0.	1887.
701- 800	14435.	800.	0.	780.	0.	0.	727.	2238.	1546.
801- 900	4293.	1679.	1692.	1775.	0.	1800.	0.	836.	1664.
901- 1000	1959.	0.	0.	0.	0.	0.	0.	0.	1939.
1001- 2000	17759.	13731.	0.	0.	3985.	5922.	4808.	0.	2643.
2001- 3000	7465.	2220.	0.	0.	4330.	0.	0.	0.	0.
3001- 4000	3210.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	4540.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	8100.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	9900.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	235133.	115675.	19395.	19197.	53261.	47907.	69624.	33084.	41220.
CUMUL. TOTALS	235133.	350808.	370203.	389400.	442661.	490568.	560192.	593276.	634496.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

[illegible] ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	1022.	885.	296.	98.	9.	19.	20.	12823.	12823.
11- 20	2894.	1813.	610.	234.	76.	79.	32.	22074.	34897.
21- 30	2726.	3179.	961.	382.	235.	150.	60.	24487.	59384.
31- 40	2618.	2812.	960.	374.	327.	35.	0.	24694.	84078.
41- 50	2153.	3405.	1218.	721.	729.	0.	322.	27655.	111733.
51- 60	1591.	3032.	1139.	385.	362.	180.	0.	27015.	138748.
61- 70	1835.	1968.	1381.	138.	503.	61.	0.	22100.	160848.
71- 80	1912.	2461.	2279.	1173.	40.	147.	142.	29254.	190102.
81- 90	1656.	3142.	2402.	90.	85.	279.	0.	21857.	211959.
91- 100	2729.	3988.	3612.	388.	0.	0.	0.	29439.	241398.
101- 200	14920.	17318.	14914.	4583.	3161.	810.	736.	189551.	430949.
201- 300	7608.	10978.	4961.	3447.	2073.	2138.	1572.	110226.	541175.
301- 400	4428.	8436.	1823.	2123.	1970.	670.	0.	72536.	613711.
401- 500	3749.	1383.	3591.	1880.	1863.	0.	0.	39387.	653098.
501- 600	3337.	1150.	1660.	2372.	2931.	0.	0.	34868.	687966.
601- 700	5950.	2030.	1261.	615.	602.	682.	0.	33227.	721193.
701- 800	0.	740.	2956.	751.	0.	0.	0.	24973.	746166.
801- 900	0.	0.	0.	0.	855.	0.	0.	14596.	760760.
901- 1000	988.	0.	0.	0.	0.	0.	0.	4877.	765637.
1001- 2000	8736.	0.	0.	6999.	1114.	0.	0.	65697.	831334.
2001- 3000	5171.	0.	0.	0.	0.	2100.	0.	21286.	852620.
3001- 4000	3020.	0.	7600.	3017.	0.	0.	0.	16847.	869467.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	4540.	874007.
5001- 6000	0.	0.	0.	0.	0.	0.	5068.	5068.	879075.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	879075.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	879075.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	8100.	887175.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	9900.	897075.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	897075.
COLUMN TOTALS	79053.	68720.	53614.	29826.	16073.	7341.	7952.	897075.	
CUMUL. TOTALS	713549.	782269.	835883.	865709.	881782.	889123.	897075.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	2424.	875.	197.	63.	149.	176.	356.	89.	166.
11- 20	3453.	975.	269.	150.	351.	317.	523.	167.	349.
21- 30	2840.	1081.	397.	80.	555.	296.	604.	173.	581.
31- 40	2668.	1575.	218.	256.	501.	550.	579.	293.	672.
41- 50	2862.	1732.	284.	275.	1060.	462.	618.	90.	509.
51- 60	2934.	2023.	232.	278.	728.	722.	677.	171.	733.
61- 70	2617.	1187.	461.	461.	465.	395.	259.	598.	318.
71- 80	2340.	1964.	378.	234.	839.	750.	908.	233.	533.
81- 90	1803.	940.	250.	172.	503.	775.	677.	90.	345.
91- 100	2730.	1844.	197.	92.	672.	391.	680.	386.	678.
101- 200	15632.	13947.	2865.	2339.	7831.	5673.	5958.	2794.	3728.
201- 300	15418.	9081.	843.	1812.	6524.	4615.	7964.	2516.	2945.
301- 400	10404.	10004.	2825.	2090.	6458.	3504.	3402.	4143.	2829.
401- 500	6627.	7664.	1739.	838.	4538.	4681.	4422.	880.	3133.
501- 600	5175.	4341.	562.	2227.	3348.	3346.	4366.	2757.	4447.
601- 700	7819.	5952.	675.	1921.	1399.	1944.	1927.	1271.	1310.
701- 800	6244.	750.	0.	792.	1505.	3071.	3002.	0.	3098.
801- 900	5084.	3464.	1725.	0.	1673.	870.	2621.	3388.	818.
901- 1000	3793.	1945.	1992.	980.	1892.	0.	1867.	2889.	0.
1001- 2000	25947.	19055.	5071.	5511.	11362.	5922.	9947.	9882.	13983.
2001- 3000	12006.	7103.	6829.	2893.	7055.	4844.	5011.	4984.	0.
3001- 4000	10783.	0.	0.	0.	0.	6896.	3127.	0.	3039.
4001- 5000	0.	4540.	4537.	5000.	4470.	4496.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	6615.	0.	0.	0.	0.	0.	6623.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	8100.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	9900.	10000.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	176218.	112062.	32546.	28464.	63876.	54696.	66118.	37794.	44214.
CUMUL. TOTALS	176218.	288280.	320826.	349290.	413166.	467862.	533980.	571774.	615988.

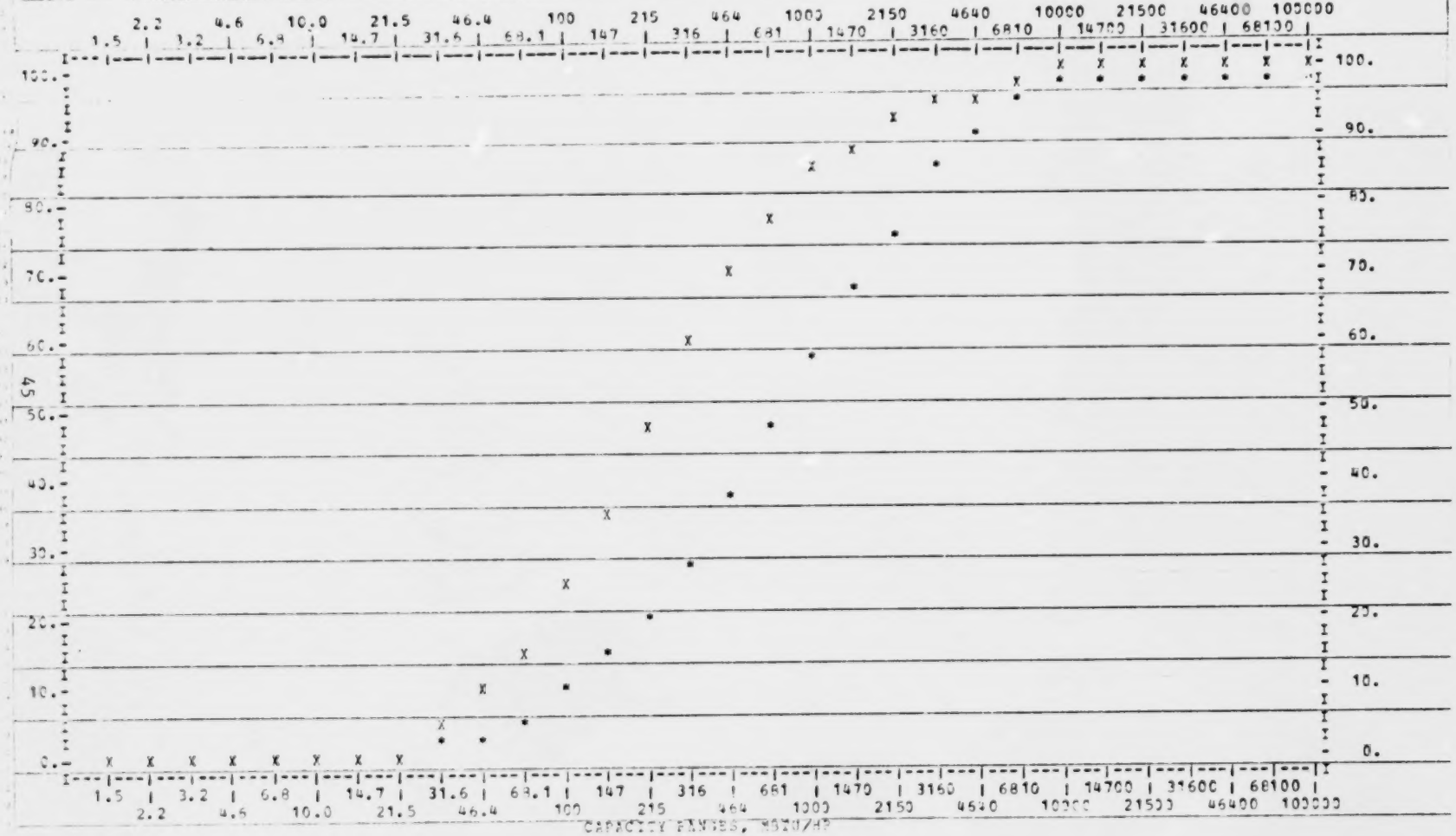
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU*S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	376.	474.	138.	46.	8.	1.	0.	5538.	5538.
11-	20	1026.	838.	254.	77.	28.	20.	22.	8817.	14355.
21-	30	1346.	1429.	493.	128.	30.	0.	0.	10033.	24388.
31-	40	1274.	1408.	330.	247.	69.	39.	32.	10711.	35099.
41-	50	1261.	1336.	563.	93.	50.	0.	0.	11195.	46294.
51-	60	1056.	1478.	577.	164.	0.	0.	66.	11833.	58127.
61-	70	1063.	1121.	461.	139.	0.	63.	0.	9618.	67745.
71-	80	1225.	909.	585.	0.	0.	0.	0.	10018.	77663.
81-	90	943.	1371.	283.	0.	167.	169.	88.	8556.	87219.
91-	100	1149.	879.	571.	196.	100.	0.	0.	10565.	97784.
101-	200	6492.	7925.	3743.	1341.	1026.	180.	451.	81925.	179709.
201-	300	6546.	4087.	4829.	1967.	400.	0.	517.	70164.	249873.
301-	400	4859.	4267.	4585.	304.	1101.	375.	0.	61148.	311021.
401-	500	6302.	2160.	4862.	882.	836.	0.	0.	49565.	360586.
501-	600	7833.	3862.	3282.	600.	0.	0.	0.	46146.	406732.
601-	700	1360.	2590.	1277.	695.	0.	0.	0.	30140.	436872.
701-	800	2312.	6121.	2230.	0.	0.	713.	0.	29838.	466710.
801-	900	2513.	876.	1714.	888.	0.	932.	848.	27314.	494024.
901-	1000	2894.	3773.	1935.	0.	0.	955.	0.	24915.	518939.
1001-	2000	22507.	11553.	7030.	2931.	1210.	0.	5210.	157181.	676120.
2001-	3000	10747.	4181.	4760.	2372.	5208.	2940.	2940.	83873.	759993.
3001-	4000	3020.	0.	3772.	0.	0.	0.	0.	30637.	790630.
4001-	5000	0.	0.	0.	0.	4795.	0.	0.	27838.	818468.
5001-	6000	10692.	0.	0.	0.	0.	0.	5068.	15760.	834228.
6001-	7000	0.	0.	0.	0.	0.	0.	6502.	10740.	844968.
7001-	8000	0.	7710.	0.	7397.	0.	0.	0.	15107.	860075.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	9100.	869175.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	19900.	869075.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	869075.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	869075.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	869075.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	869075.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	869075.
COLUMN TOTALS		98795.	70358.	48324.	20468.	15118.	5287.	21736.	869075.	
CUMUL. TOTALS		714784.	785142.	833466.	853934.	869052.	875339.	897075.		

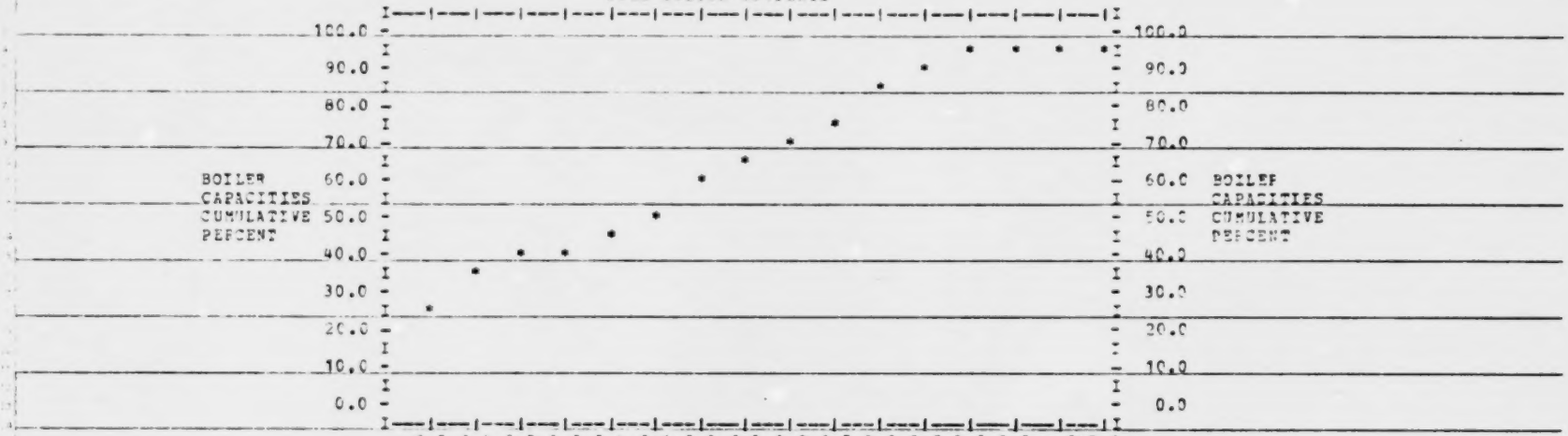
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS

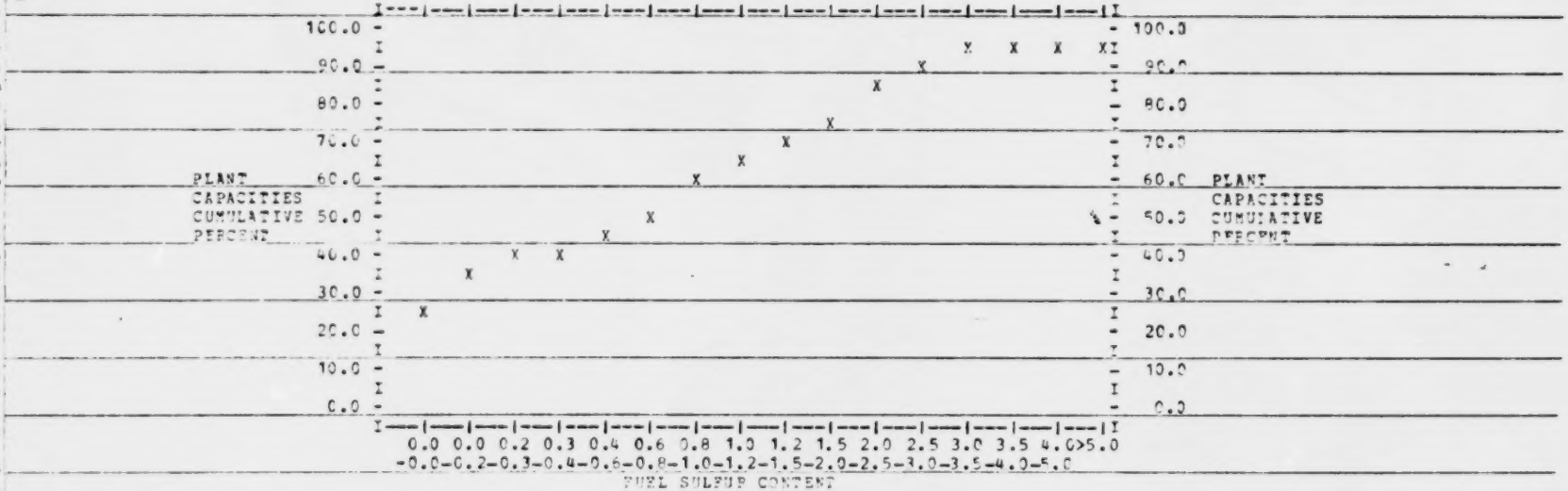
X--INDIVIDUAL BOILERS
*--PLANTS



BOILER CAPACITIES (ALL DATA) = 897075.
PLANT CAPACITIES (ALL DATA) = 897075.

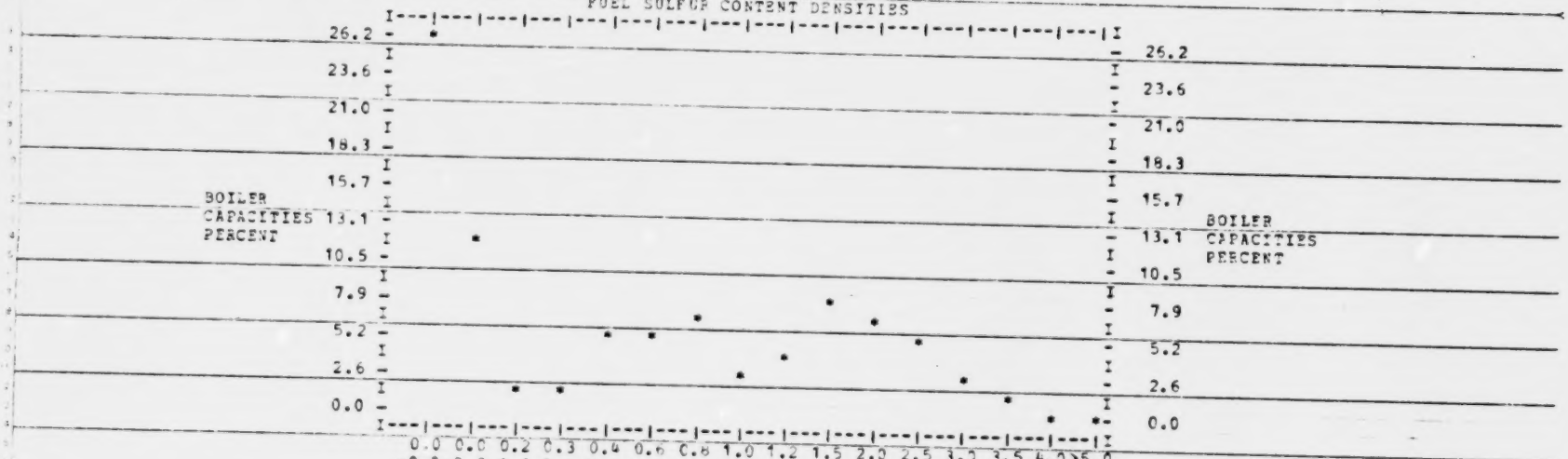
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS

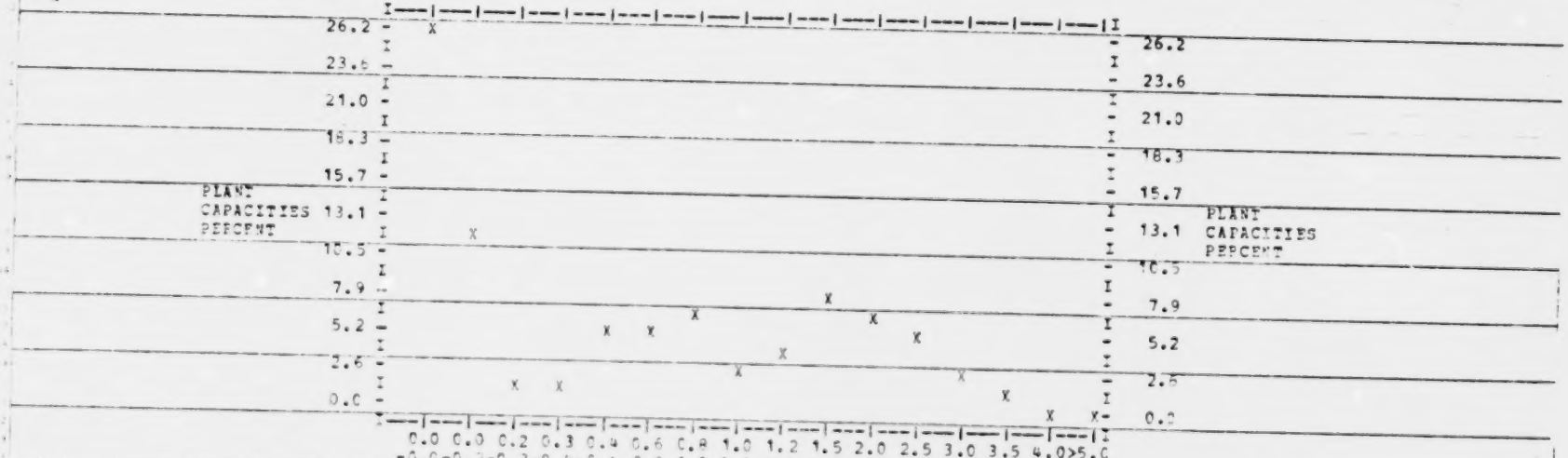




BOILER CAPACITIES (ALL DATA) = 897075.
PLANT CAPACITIES (ALL DATA) = 897075.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 897075.
PLANT CAPACITIES (ALL DATA) = 897075.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	1505.	605.	635.	2397.	4098.	2899.	285.	1656.
11-	20	0.	228.	106.	255.	1249.	1239.	1859.	836.	833.
21-	30	0.	228.	213.	131.	777.	1126.	1387.	1082.	3673.
31-	40	0.	264.	299.	451.	1149.	2937.	3498.	966.	2751.
41-	50	0.	462.	175.	81.	1194.	1485.	3788.	2146.	1709.
51-	60	0.	405.	115.	306.	1293.	4722.	3544.	2015.	2218.
61-	70	0.	375.	117.	151.	1178.	1417.	2512.	3269.	1197.
71-	80	0.	302.	344.	91.	1604.	2433.	3838.	2030.	709.
81-	90	0.	244.	55.	231.	1009.	1726.	2186.	600.	153.
91-	100	0.	922.	824.	545.	541.	2012.	2298.	3956.	1348.
101-	200	0.	2560.	1700.	3006.	8514.	16582.	29289.	16149.	11193.
201-	300	0.	1885.	1466.	1602.	3650.	6575.	15086.	13151.	13669.
301-	400	0.	912.	1077.	1077.	3555.	2587.	11742.	11005.	8080.
401-	500	0.	1380.	897.	20.	353.	516.	5326.	6500.	1767.
501-	600	0.	211.	0.	649.	160.	1977.	1597.	71.	8825.
601-	700	0.	126.	0.	401.	1612.	0.	9800.	0.	5301.
701-	800	0.	5.	0.	854.	0.	0.	1970.	3398.	1102.
801-	900	0.	75.	471.	1313.	0.	3998.	0.	3878.	2086.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	2238.
1001-	2000	0.	785.	0.	0.	1093.	5294.	258.	0.	728.
2001-	3000	0.	177.	0.	0.	211.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	25.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	13078.	8465.	11798.	31531.	60725.	102875.	71338.	71437.
CUMUL. TOTALS		0.	13078.	21543.	33341.	64872.	125597.	228472.	299810.	371246.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	7842.	7930.	18376.	3355.	1171.	13752.	253.	66759.	66759.
11-	20	5684.	7054.	3972.	1824.	604.	516.	395.	26754.	93513.
21-	30	5705.	8777.	3112.	3383.	1866.	1159.	715.	33533.	127046.
31-	40	8880.	9321.	4764.	2541.	1438.	63.	0.	39322.	166368.
41-	50	3558.	13315.	11968.	2246.	6546.	0.	4915.	53588.	219956.
51-	60	3680.	8060.	8147.	2672.	3204.	3227.	0.	43609.	263564.
61-	70	4253.	4409.	6628.	850.	11202.	285.	0.	37843.	301407.
71-	80	5834.	5300.	12152.	9339.	903.	3542.	1800.	50222.	351628.
81-	90	6166.	8005.	7990.	932.	72.	1558.	0.	30917.	382546.
91-	100	9190.	11798.	13915.	1641.	0.	0.	0.	48900.	431536.
101-	200	92453.	52279.	78681.	26533.	13365.	12364.	3157.	367826.	799361.
201-	300	23956.	36587.	27700.	20339.	12422.	12779.	10652.	201519.	1000880.
301-	400	8885.	22459.	4186.	16632.	22121.	12166.	0.	126484.	1127363.
401-	500	5541.	6453.	55462.	11342.	19222.	0.	0.	114779.	1242142.
501-	600	7586.	1093.	6712.	26796.	15711.	0.	0.	71388.	1313530.
601-	700	42957.	6923.	5702.	5740.	5013.	9885.	0.	93460.	1406989.
701-	800	0.	2265.	14772.	7528.	0.	0.	0.	31895.	1438884.
801-	900	0.	0.	0.	0.	5012.	0.	0.	16839.	1455722.
901-	1000	216.	0.	0.	0.	0.	0.	0.	2453.	1458175.
1001-	2000	463002.	0.	0.	70056.	8182.	0.	0.	549398.	2007572.
2001-	3000	24324.	0.	0.	0.	0.	1720.	0.	26432.	2034004.
3001-	4000	21.	0.	1938.	30520.	0.	0.	0.	32479.	2066483.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	25.	2066507.
5001-	6000	0.	0.	0.	0.	0.	0.	75713.	75713.	2142220.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	2142220.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	2142220.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	2142220.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	2142220.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	2142220.
COLUMN TOTALS		729732.	212029.	286177.	244370.	128055.	73016.	97599.	2142220.	
CUMUL. TOTALS		1100978.	1313007.	1599183.	1843552.	1971607.	2044623.	2142222.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU*S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	541.	128.	0.	2106.	3847.	1362.	3.	255.
1-	10	0.	250.	263.	28.	209.	369.	583.	205.	245.
11-	20	0.	135.	80.	102.	663.	459.	561.	296.	366.
21-	30	0.	140.	86.	26.	646.	399.	665.	264.	1239.
31-	40	0.	99.	56.	281.	288.	490.	678.	359.	911.
41-	50	0.	116.	109.	68.	885.	629.	784.	287.	603.
51-	60	0.	144.	62.	83.	735.	3705.	1265.	569.	1249.
61-	70	0.	132.	102.	279.	233.	315.	339.	1357.	577.
71-	80	0.	116.	140.	77.	691.	1620.	1061.	752.	704.
81-	90	0.	47.	78.	90.	452.	613.	972.	39.	1032.
91-	100	0.	187.	42.	23.	422.	602.	929.	449.	756.
101-	200	0.	1703.	1501.	1033.	5817.	7772.	8266.	6593.	8565.
201-	300	0.	1364.	433.	695.	3531.	3844.	10181.	4695.	2917.
301-	400	0.	1646.	492.	736.	3904.	3031.	4167.	6456.	5118.
401-	500	0.	762.	903.	548.	3329.	3702.	3944.	3079.	5380.
501-	600	0.	159.	389.	942.	1790.	5013.	7553.	2543.	11880.
601-	700	0.	643.	320.	1270.	1282.	2827.	1296.	853.	1502.
701-	800	0.	1.	0.	266.	873.	3209.	4940.	0.	9730.
801-	900	0.	1237.	3331.	0.	1113.	1367.	4196.	7426.	559.
901-	1000	0.	157.	523.	467.	1602.	0.	2772.	3632.	0.
1001-	2000	0.	1567.	2493.	3522.	7766.	5294.	16371.	20983.	36396.
2001-	3000	0.	1124.	3688.	962.	3351.	5145.	965.	8978.	0.
3001-	4000	0.	0.	0.	0.	0.	5584.	6646.	0.	4179.
4001-	5000	0.	25.	1323.	3998.	979.	6293.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	2359.	14701.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	992.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	13287.	16541.	15517.	42666.	68489.	95196.	69817.	94192.
CUMUL. TOTALS		0.	13287.	29828.	45345.	88011.	156499.	251696.	321512.	415704.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

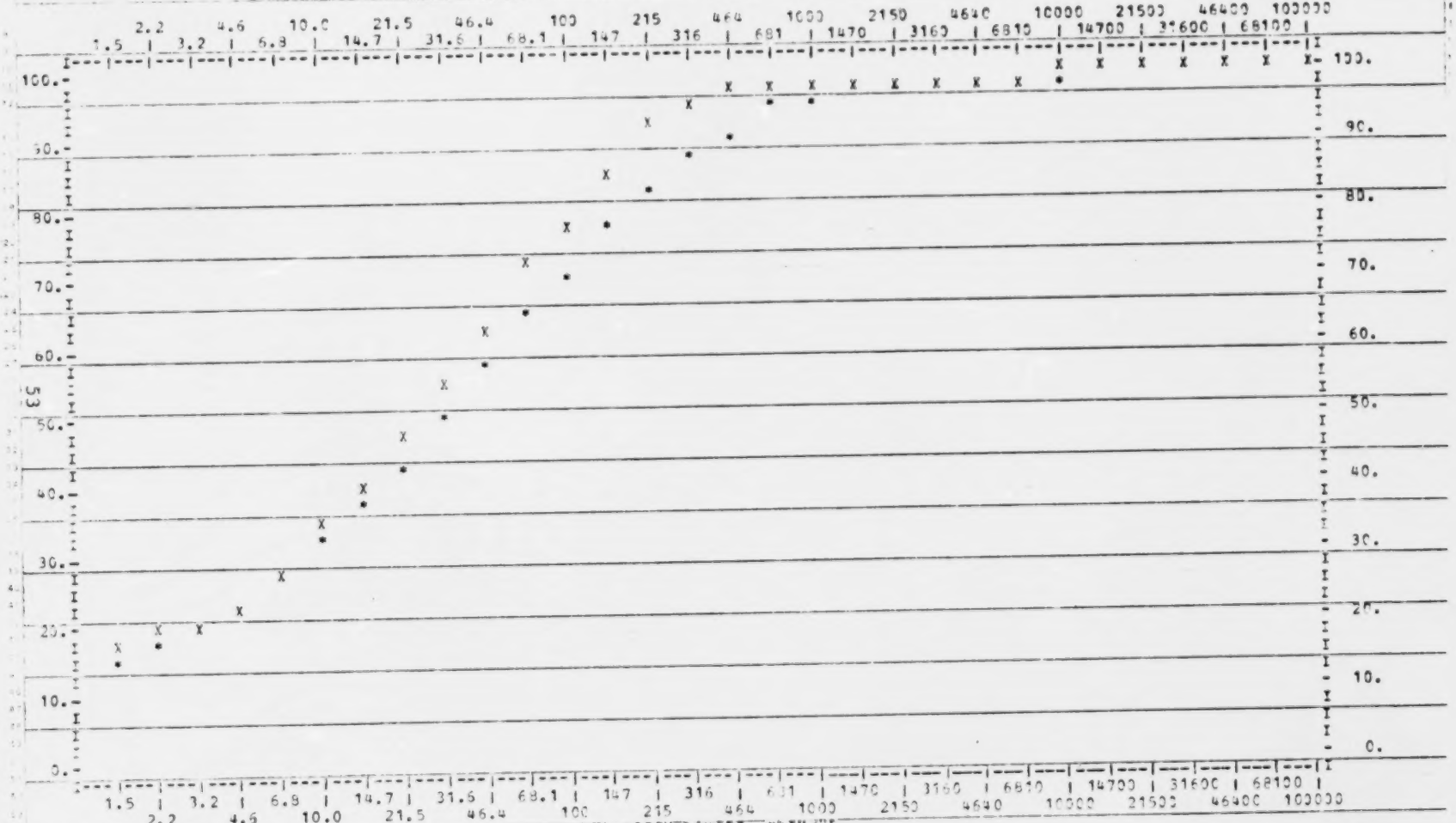
TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	1281.	1369.	16372.	37.	0.	337.	0.	27640.	27640.
1-	10	1111.	4149.	1183.	277.	1056.	647.	0.	10574.	38214.
11-	20	2120.	2325.	1289.	453.	167.	2594.	253.	11863.	50076.
21-	30	2331.	4208.	1414.	1591.	377.	0.	0.	13386.	63462.
31-	40	1821.	4920.	1001.	1825.	329.	291.	395.	13743.	77205.
41-	50	2002.	2747.	8386.	206.	306.	0.	0.	17128.	94332.
51-	60	2960.	3322.	1916.	650.	0.	0.	715.	17374.	111706.
61-	70	2375.	3781.	2903.	374.	0.	116.	0.	12883.	124589.
71-	80	4354.	2857.	2358.	0.	0.	0.	0.	14729.	139318.
81-	90	1325.	2633.	630.	0.	568.	11799.	901.	21181.	160499.
91-	100	5200.	3226.	2010.	677.	360.	0.	0.	14893.	175392.
101-	200	16107.	19357.	18774.	5676.	8511.	1586.	730.	112011.	287402.
201-	300	23333.	11953.	22651.	12769.	733.	0.	5819.	104912.	392314.
301-	400	5994.	13948.	21579.	1272.	5783.	11332.	0.	85457.	477771.
401-	500	17160.	8660.	18507.	3870.	7174.	0.	0.	77018.	554789.
501-	600	72377.	8657.	18501.	7155.	0.	0.	0.	136959.	691748.
601-	700	3597.	7183.	6423.	5670.	0.	0.	0.	32967.	724715.
701-	800	44288.	16480.	7205.	0.	0.	5634.	0.	92625.	817340.
801-	900	9481.	3522.	6615.	10656.	0.	1845.	0.	51348.	868689.
901-	1000	6357.	12760.	13922.	0.	0.	15701.	0.	57913.	926602.
1001-	2000	530783.	41445.	42899.	18567.	9092.	0.	13070.	720243.	1646844.
2001-	3000	24903.	17850.	17706.	26796.	32619.	8618.	6992.	159697.	1806541.
3001-	4000	21.	0.	43907.	0.	0.	0.	0.	60337.	1866878.
4001-	5000	0.	0.	0.	0.	46740.	0.	0.	59358.	1926236.
5001-	6000	34206.	0.	0.	0.	0.	0.	75713.	109919.	2036155.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	17060.	2053214.
7001-	8000	0.	1939.	0.	83569.	0.	0.	0.	85508.	2138621.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	2138621.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	992.	2139613.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	2139613.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	2139613.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	2139613.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	2139613.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	2139613.
COLUMN TOTALS		785483.	199292.	278152.	182089.	113814.	63501.	104582.	2139613.	
CUMUL. TOTALS		1201187.	1400478.	1678629.	1860718.	1974531.	2038031.	2139613.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS

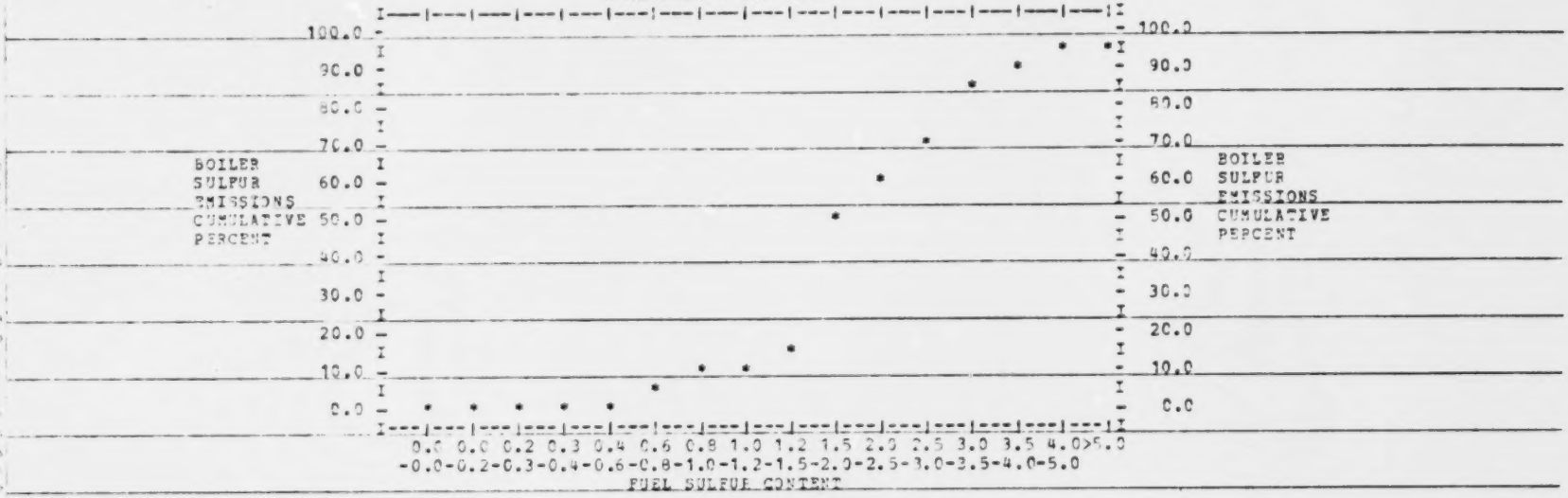
CAPACITY RANGES, MBTU/HR

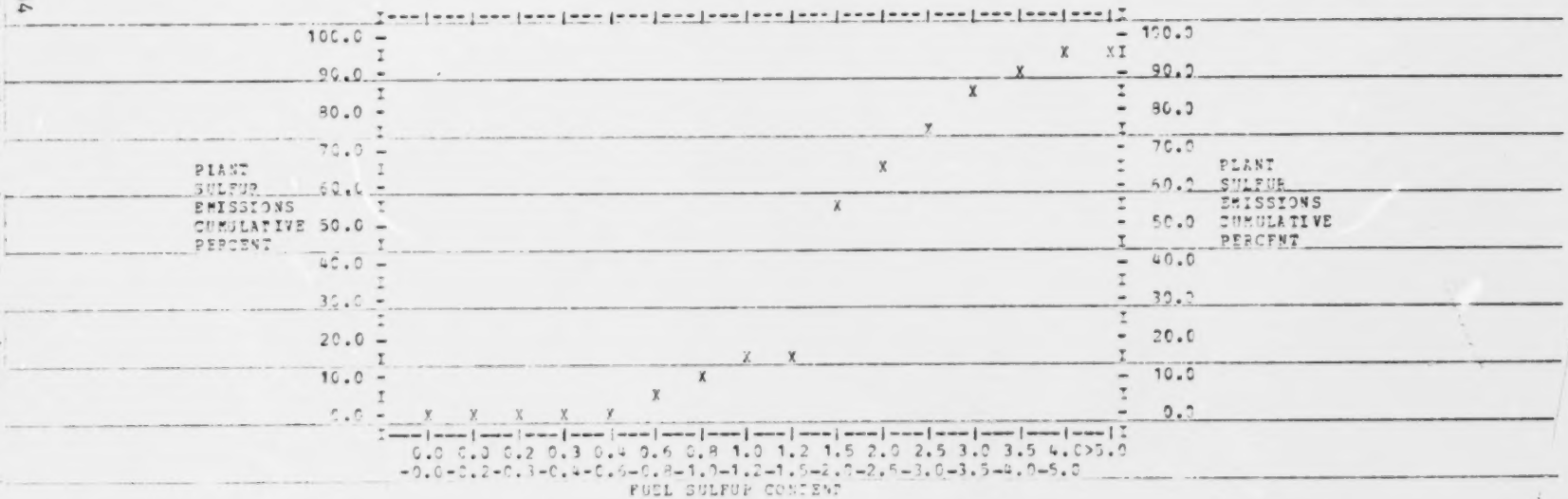


CAPACITY RANGES, MBTU/HR

NUMBER OF BOILERS (ALL DATA) = 12743
NUMBER OF PLANTS (ALL DATA) = 5983

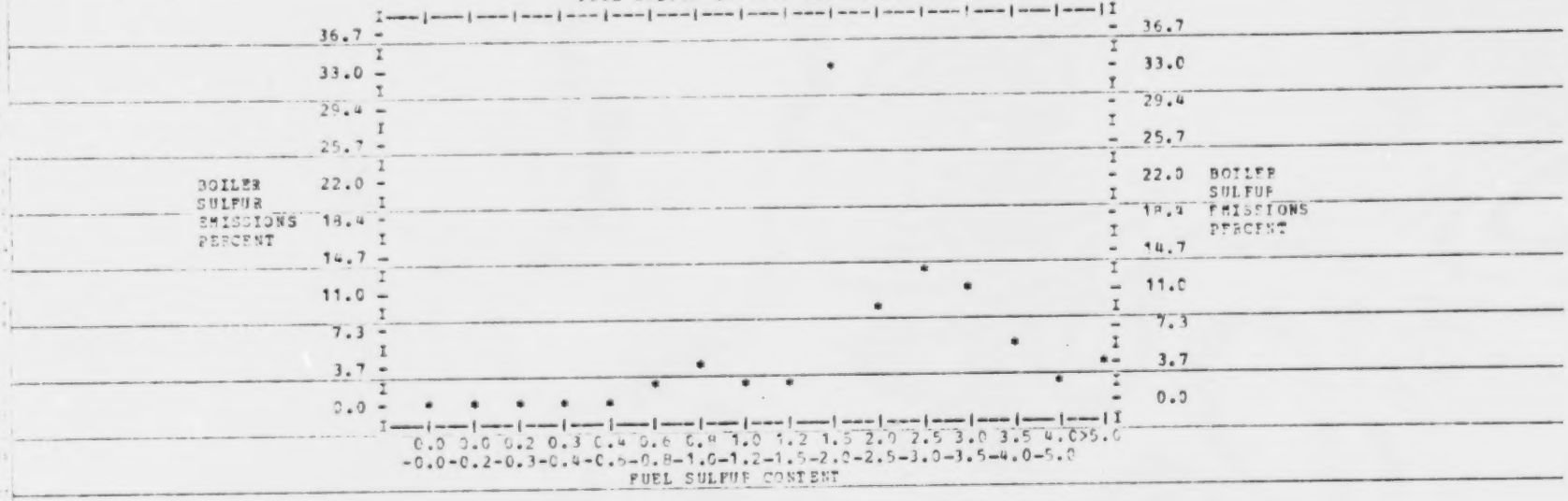
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS

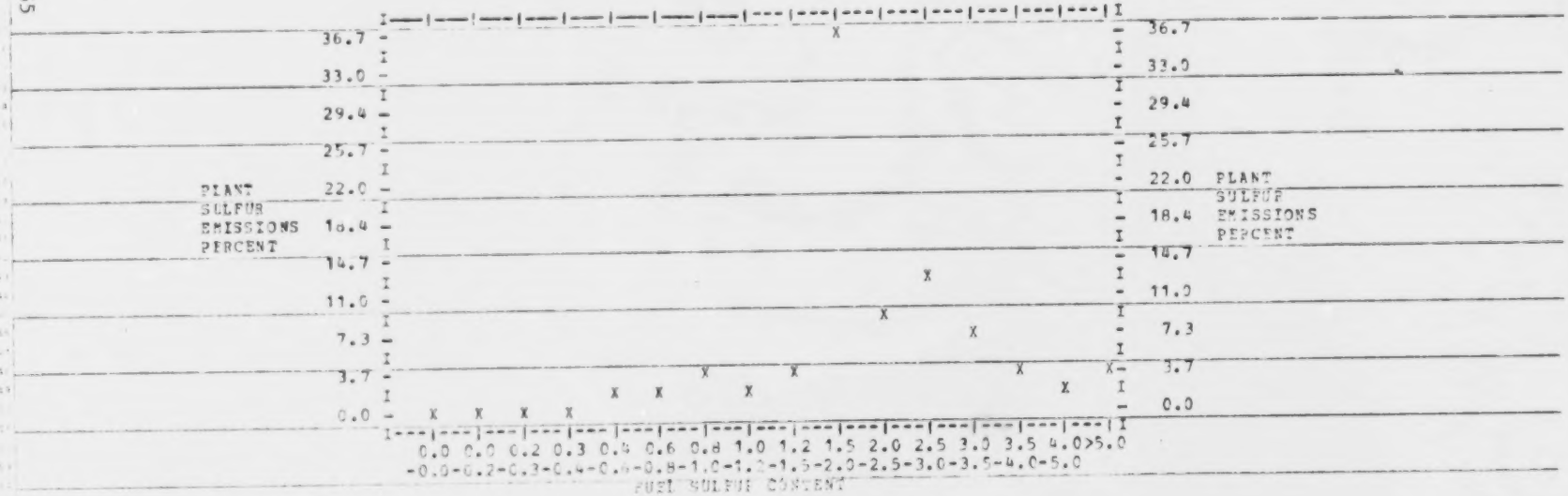




NUMBER OF BOILERS (ALL DATA) = 12043
NUMBER OF PLANTS (ALL DATA) = 5043

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 12743
NUMBER OF PLANTS (ALL DATA) = 5683

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	653915.	73890.	9303.	6484.	16614.	15370.	11540.	869.	4253.
11-	20	57840.	14697.	1502.	2911.	7777.	5223.	7292.	2206.	2068.
21-	30	49624.	13961.	3282.	2171.	5405.	4604.	5904.	2797.	8056.
31-	40	21806.	15776.	8943.	3954.	9203.	13845.	13453.	1988.	7381.
41-	50	33840.	30187.	2177.	719.	7914.	7691.	11616.	4780.	4031.
51-	60	33662.	30485.	1642.	3033.	7211.	23469.	14014.	5224.	7189.
61-	70	20437.	46361.	1807.	1730.	8183.	5943.	7800.	8247.	4439.
71-	80	133585.	21585.	6043.	1016.	11144.	9893.	14934.	5605.	1769.
81-	90	67931.	51472.	1406.	8298.	8045.	6971.	8563.	3323.	389.
91-	100	41223.	29818.	11156.	4059.	5077.	7769.	14063.	9839.	5765.
101-	200	4035696.	133628.	26409.	25868.	53355.	67805.	96630.	42966.	33552.
201-	300	256040.	65503.	15430.	11134.	24013.	25861.	47400.	40236.	32560.
301-	400	66873.	49191.	11047.	23803.	13800.	11018.	31070.	29810.	17600.
401-	500	16799.	46881.	10365.	181.	2745.	1835.	16883.	23019.	7368.
501-	600	35568.	13419.	0.	7196.	1317.	7286.	6879.	268.	18505.
601-	700	40584.	3502.	0.	6415.	3894.	0.	30632.	0.	15021.
701-	800	24222.	800.	0.	6942.	0.	0.	7894.	11383.	7090.
801-	900	296708.	5416.	4932.	11581.	0.	16484.	0.	8662.	4270.
901-	1000	15520.	0.	0.	0.	0.	0.	0.	0.	4429.
1001-	2000	111343.	20080.	0.	0.	8334.	20407.	899.	0.	6130.
2001-	3000	55054.	4040.	0.	0.	18334.	0.	0.	0.	0.
3001-	4000	28123.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	68519.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	756.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	87101.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		6194282.	748215.	118444.	127484.	224265.	252468.	347171.	201221.	191866.
CUMUL. TOTALS		6194282.	6942497.	7060940.	7188423.	7412688.	7665156.	8012327.	8213547.	8405413.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, BTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	15801.	8143.	16924.	2124.	738.	11628.	45.	847690.	847690.
11- 20	10609.	10688.	3687.	1569.	381.	316.	70.	128844.	976535.
21- 30	10722.	13309.	3097.	2586.	1387.	623.	127.	127659.	1104194.
31- 40	16761.	11677.	4443.	1906.	1026.	933.	0.	133093.	1237287.
41- 50	6313.	16755.	10857.	1668.	4187.	0.	1995.	144629.	1381915.
51- 60	6405.	10640.	7394.	1392.	2068.	1467.	0.	155801.	1537715.
61- 70	8510.	6430.	5787.	689.	8089.	185.	0.	134637.	1672351.
71- 80	10860.	7519.	11149.	6789.	547.	6716.	600.	249705.	1922105.
81- 90	11074.	10062.	6870.	786.	49.	1380.	0.	186618.	2108723.
91- 100	16836.	15507.	12498.	1168.	0.	0.	0.	174777.	2283500.
101- 200	158124.	76094.	67395.	19033.	8552.	19839.	2456.	4873553.	7157053.
201- 300	42037.	47245.	25720.	14917.	9191.	7102.	3794.	682216.	7839269.
301- 400	16973.	36946.	4161.	13137.	14421.	5530.	0.	351381.	8190649.
401- 500	10387.	11209.	49274.	7998.	12544.	0.	0.	220194.	8410842.
501- 600	11917.	1389.	6513.	17864.	11449.	0.	0.	139569.	8550411.
601- 700	64932.	11793.	7368.	4348.	3325.	5694.	0.	203529.	8753939.
701- 800	0.	3450.	13259.	5576.	0.	0.	0.	80616.	8834555.
801- 900	0.	0.	0.	0.	3324.	0.	0.	351363.	9185917.
901- 1000	299.	0.	0.	0.	0.	0.	0.	20247.	9206164.
1001- 2000	6907089.	0.	0.	47023.	5018.	0.	0.	7126323.	16332487.
2001- 3000	30725.	0.	0.	0.	0.	1040.	0.	109193.	16441679.
3001- 4000	39.	0.	1615.	19184.	0.	0.	0.	48962.	16490640.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	68519.	16559159.
5001- 6000	0.	0.	0.	0.	0.	0.	29691.	29691.	16588849.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	16588849.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	16588849.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	756.	16589605.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	87101.	16676705.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	16676705.
COLUMN TOTALS	7356590.	298847.	258036.	170258.	86346.	62453.	38770.	16676705.	
CUMUL. TOTALS	15762003.	16060850.	16318886.	16489143.	16575489.	16637941.	16676710.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, MBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	467500.	26087.	1729.	0.	14113.	15665.	6249.	7.	701.
1-	10	71101.	24518.	4504.	243.	1386.	1601.	2011.	622.	633.
11-	20	37503.	7348.	1161.	1159.	4103.	1890.	1929.	845.	881.
21-	30	23757.	16312.	1281.	302.	4805.	1569.	2218.	839.	2789.
31-	40	13746.	6641.	849.	2496.	2296.	2514.	2589.	928.	2090.
41-	50	12425.	12725.	1245.	626.	4695.	2179.	2555.	634.	1389.
51-	60	13821.	7726.	969.	843.	4927.	19425.	3737.	1767.	2818.
61-	70	13684.	14742.	1501.	2557.	2095.	1633.	1309.	3170.	1188.
71-	80	7663.	9145.	2800.	959.	4242.	6782.	3426.	1737.	1942.
81-	90	53475.	3721.	1429.	886.	3592.	2941.	3175.	138.	2149.
91-	100	18717.	10479.	1059.	283.	2668.	1954.	2887.	1296.	1905.
101-	200	95867.	138158.	20792.	15905.	34456.	28250.	27759.	18552.	22049.
201-	300	52631.	101438.	4382.	3957.	22289.	12883.	36330.	20691.	6799.
301-	400	58088.	90721.	6745.	20712.	22458.	35933.	15059.	19231.	11455.
401-	500	16847.	52114.	9717.	4174.	13450.	13650.	13404.	6649.	14359.
501-	600	17118.	20871.	4432.	9136.	12167.	17673.	23522.	7395.	32411.
601-	700	36003.	22189.	5863.	16680.	9410.	10151.	4233.	1462.	4453.
701-	800	177171.	6086.	0.	2578.	5790.	12975.	19849.	0.	32018.
801-	900	296867.	34838.	34027.	0.	9540.	6257.	19470.	21743.	1184.
901-	1000	25939.	13091.	7365.	4623.	5496.	0.	7053.	8044.	0.
1001-	2000	396934.	63884.	29547.	31069.	56176.	20407.	50810.	70149.	81953.
2001-	3000	61149.	36266.	43890.	11212.	39687.	19238.	3472.	29466.	0.
3001-	4000	69205.	0.	0.	0.	0.	23825.	16226.	0.	21079.
4001-	5000	0.	68519.	16466.	35501.	8110.	26485.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	29770.	42223.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	756.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	87101.	21479.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		5702702.	897667.	203751.	165904.	297929.	318519.	311495.	216260.	246212.
CUMUL. TOTALS		5702702.	6600389.	6804139.	6970042.	7267971.	7586489.	7897983.	8114242.	8360453.

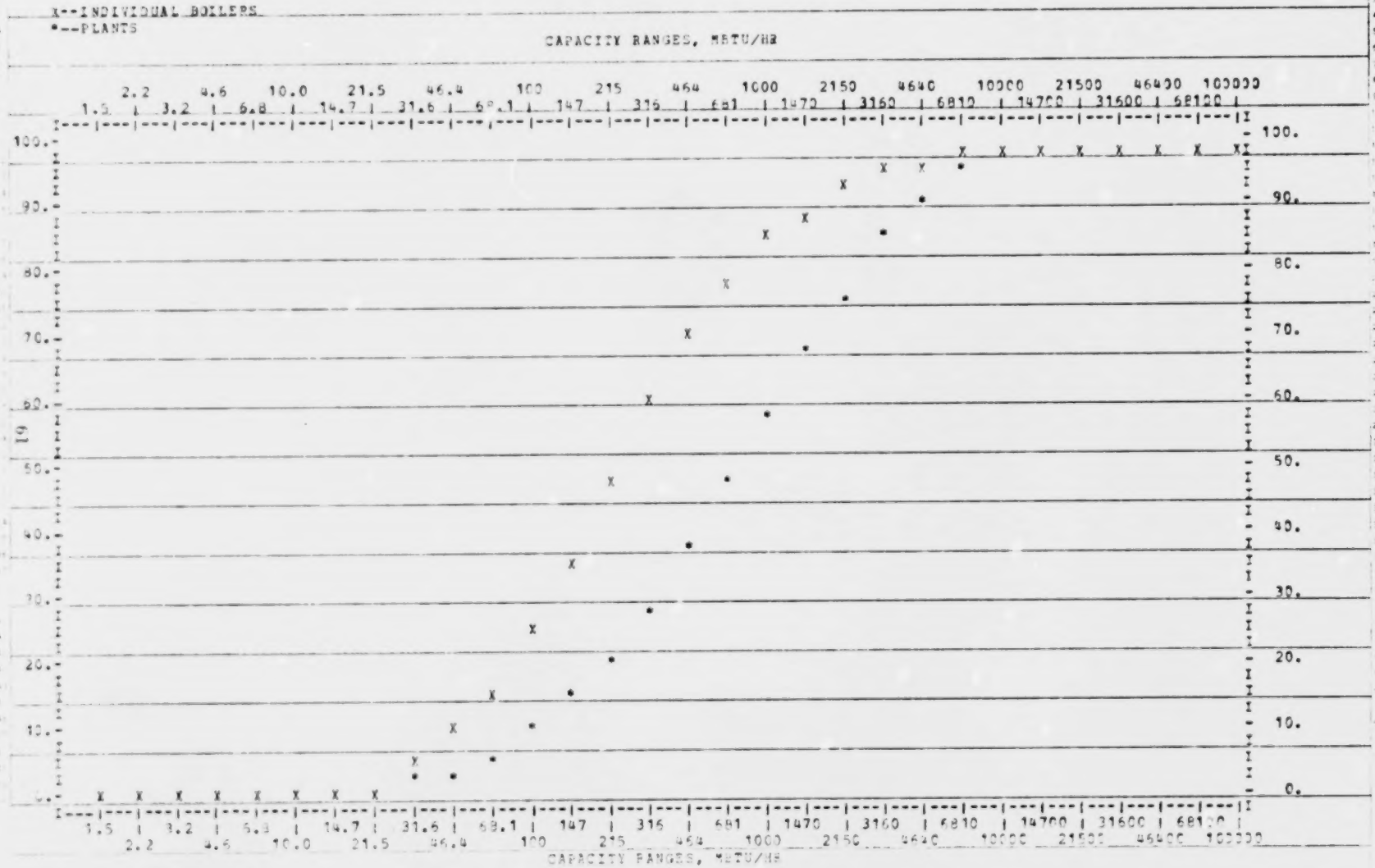
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, BOTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	2271.	2322.	15168.	39.	0.	143.	0.	552014.	552014.
1-	10	1950.	2812.	958.	235.	746.	288.	0.	113508.	665523.
11-	20	4149.	3638.	1260.	314.	113.	150.	45.	68054.	733577.
21-	30	4373.	6253.	1650.	1169.	231.	0.	0.	67544.	801120.
31-	40	3591.	7364.	1183.	1288.	236.	170.	70.	48072.	849193.
41-	50	3475.	4861.	7667.	224.	187.	0.	0.	55283.	904475.
51-	60	4983.	4078.	2144.	1189.	0.	0.	127.	74154.	978629.
61-	70	4475.	4881.	2801.	295.	0.	105.	0.	53038.	1032567.
71-	80	4184.	3876.	2691.	0.	0.	0.	0.	53349.	1085916.
81-	90	2433.	3150.	611.	0.	313.	10739.	317.	89072.	1174987.
91-	100	3973.	3747.	2277.	463.	207.	0.	0.	58325.	1233312.
101-	200	47280.	24983.	17455.	4598.	5490.	761.	655.	501005.	1734317.
201-	300	37317.	16024.	20683.	9370.	444.	0.	2389.	441776.	2176093.
301-	400	10299.	18132.	16156.	820.	3644.	24128.	0.	394740.	2570833.
401-	500	31441.	11127.	16051.	2726.	4620.	0.	0.	215127.	2749959.
501-	600	36287.	12731.	15017.	5516.	0.	0.	0.	274275.	3024234.
601-	700	4670.	10838.	5561.	3726.	0.	0.	0.	135079.	3159313.
701-	800	68674.	24487.	4595.	0.	0.	2758.	0.	362979.	3522291.
801-	900	17374.	3437.	5337.	8007.	0.	693.	0.	458137.	3980427.
901-	1000	13822.	17879.	13798.	0.	0.	7798.	0.	128864.	4109291.
1001-	2000	697297.	58533.	39198.	14599.	5883.	0.	14331.	1149848.	5259226.
2001-	3000	41763.	18207.	17530.	17864.	20937.	5560.	14299.	380536.	5639762.
3001-	4000	39.	0.	41461.	0.	0.	0.	0.	171833.	5811595.
4001-	5000	0.	0.	0.	0.	30655.	0.	0.	185935.	5997530.
5001-	6000	64582.	0.	0.	0.	0.	0.	29691.	94273.	6091803.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	71992.	6163795.
7001-	8000	0.	2066.	0.	52529.	0.	0.	0.	54596.	6218390.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	756.	6219146.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	108580.	6327725.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	6327725.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	6327725.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	6327725.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	6327725.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	6327725.
COLUMN TOTALS		1129453.	367638.	258084.	125070.	73725.	55049.	81926.	6327725.	
CUMTOT ALL		5817240.	6184877.	6340960.	6466029.	6539753.	6594802.	6676728.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

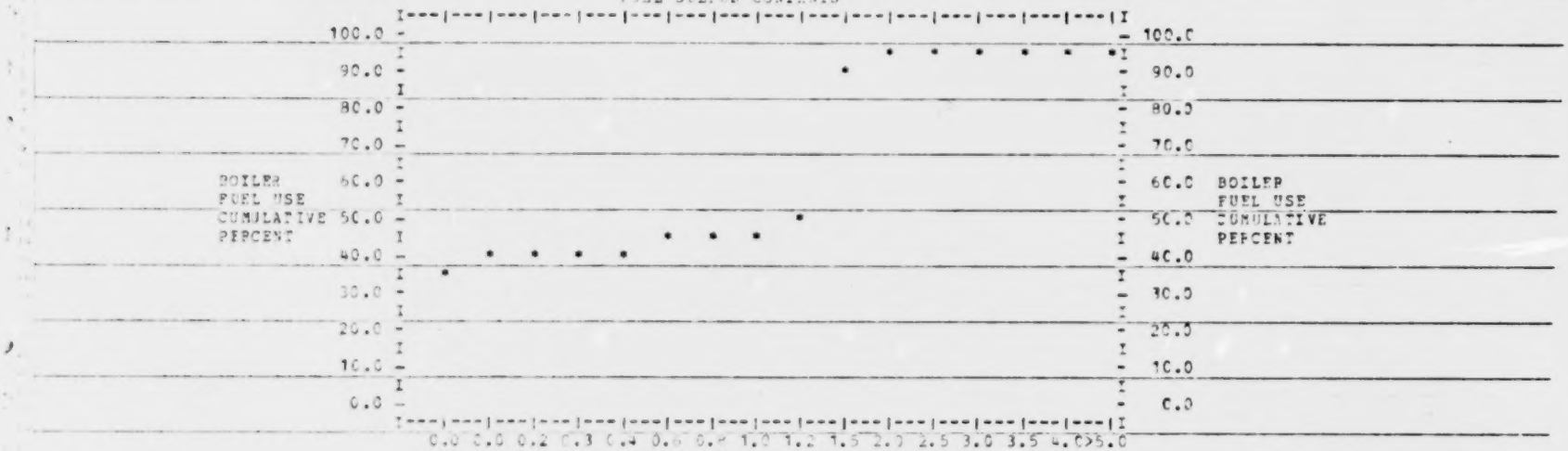


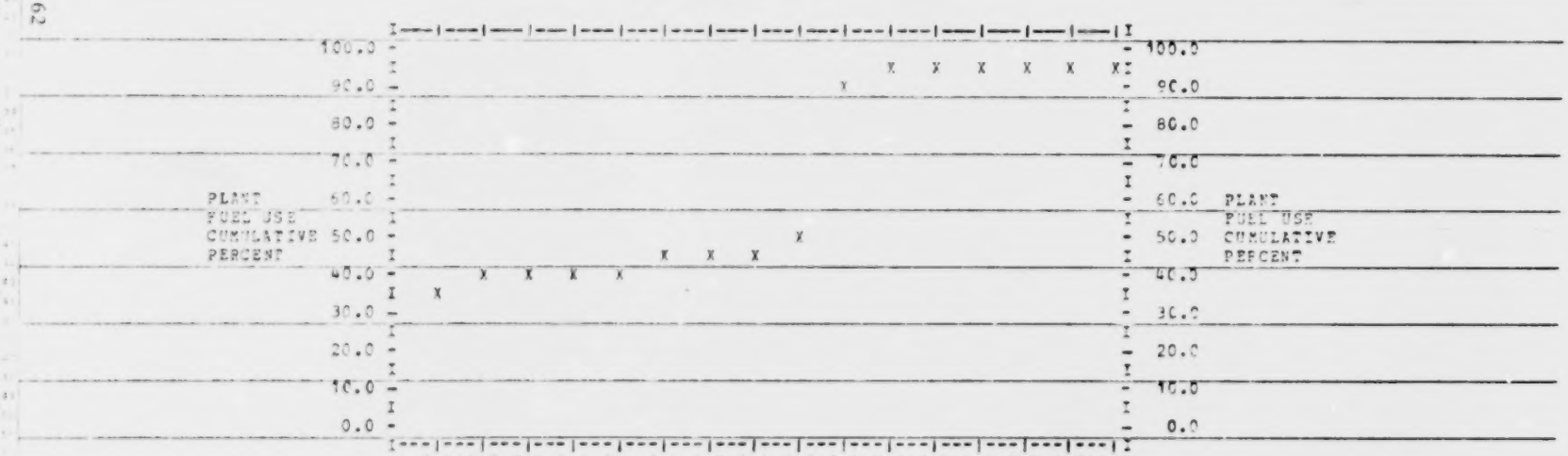
BOILER CAPACITIES (ALL DATA) = 697075.
PLANT CAPACITIES (ALL DATA) = 697075.

BOILER POPULATION DATA - INDUSTRIAL BOILERS

ALL BOILERS AND ALL FUELS

FUEL SULFUR CONTENTS

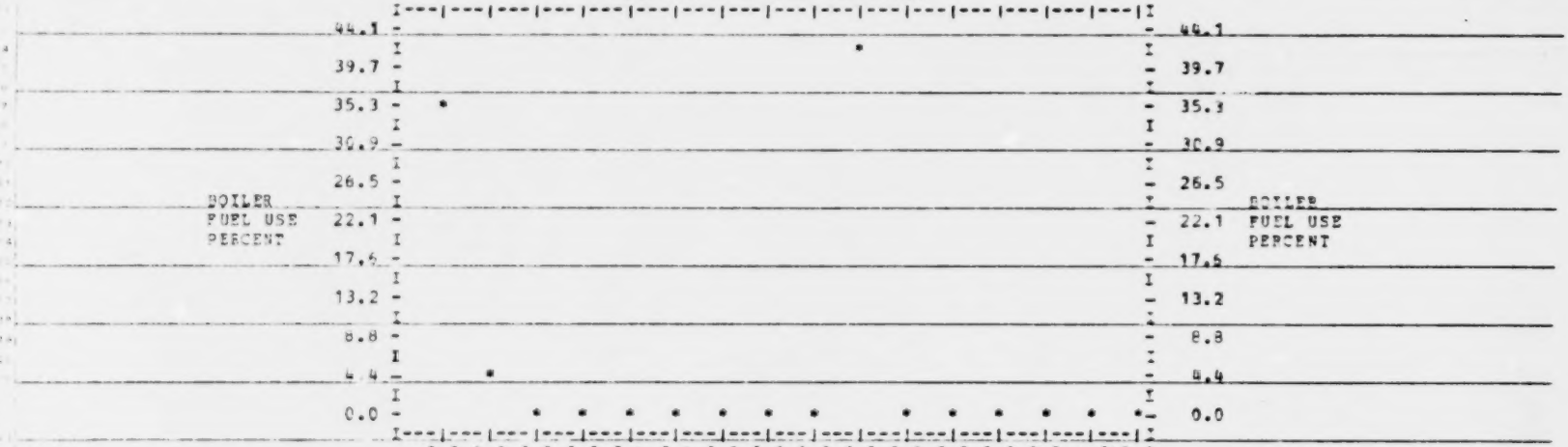


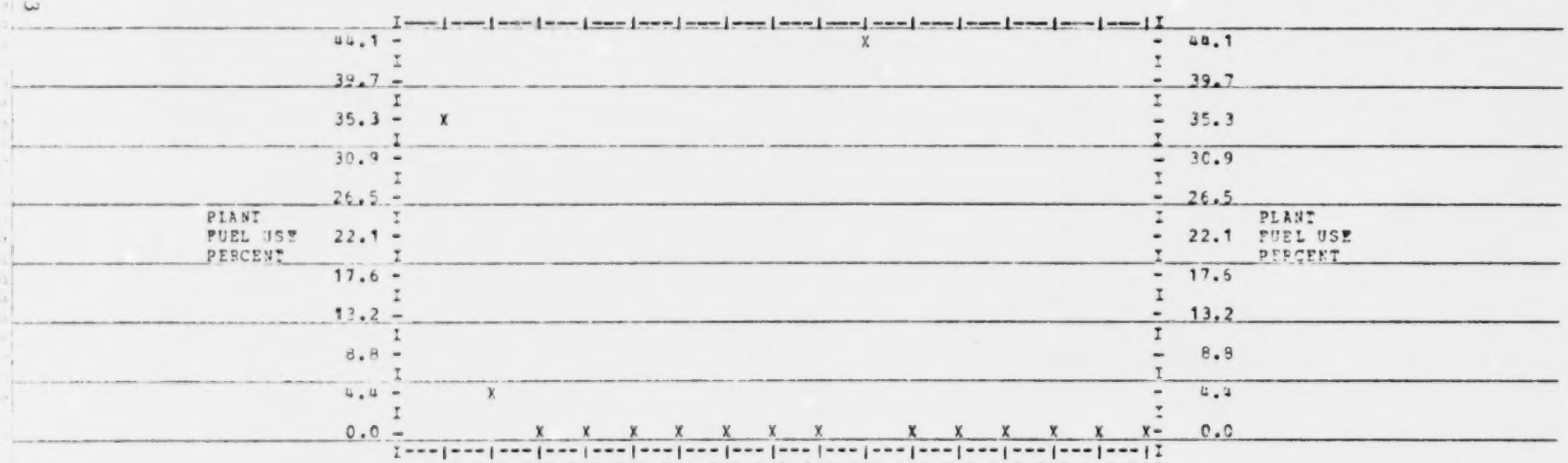


BOILER CAPACITIES (ALL DATA) = 897075.

PLANT CAPACITIES (ALL DATA) = 897075.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 897075.
PLANT CAPACITIES (ALL DATA) = 897075.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	EQUAL ZERO	STACK HEIGHTS IN FEET 1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
EQUAL 0	635	42	142	120	90	66	27	21	22	17	12	17	9	2	0
1- 10	516	290	634	241	169	88	32	24	18	6	3	5	1	0	0
11- 20	211	65	248	108	93	87	28	40	23	11	7	5	0	0	0
21- 30	118	35	159	94	97	50	22	29	22	9	6	8	0	1	0
31- 40	95	18	97	58	41	40	19	26	32	17	11	8	1	0	0
41- 50	68	14	71	60	46	36	19	17	16	22	6	3	0	1	0
51- 60	34	12	49	49	36	16	13	21	26	14	7	4	2	0	0
61- 70	33	8	43	22	24	21	5	20	14	12	4	2	0	0	0
71- 80	33	5	28	33	35	21	14	8	13	20	9	6	1	0	0
81- 90	27	1	20	19	16	15	7	8	14	6	6	4	0	0	0
91- 100	24	1	16	29	27	17	12	12	15	8	15	10	3	0	1
101- 200	107	6	79	117	110	71	46	51	61	56	32	55	10	1	0
201- 300	41	5	22	37	42	36	31	32	37	30	28	43	7	1	0
301- 400	14	0	10	21	23	22	10	22	26	18	15	24	4	1	2
401- 500	9	1	6	8	14	18	14	3	15	12	2	20	2	1	0
501- 600	8	0	2	3	4	11	4	7	8	8	8	14	4	3	0
601- 700	4	1	0	2	5	5	7	2	3	3	3	6	1	0	0
701- 800	4	0	1	2	2	4	7	3	3	4	5	7	2	1	0
801- 900	0	0	0	2	1	0	2	5	6	6	1	4	1	0	0
901- 1000	0	0	0	1	3	2	3	2	3	0	2	3	0	0	0
1001- 2000	9	1	3	3	4	3	8	6	6	8	8	11	2	1	1
2001- 3000	3	1	1	0	1	0	1	2	7	1	1	4	0	0	1
3001- 4000	0	0	0	1	1	0	1	0	0	1	0	1	1	0	0
4001- 5000	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
5001- 6000	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
9001- 10000	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	1996	506	1645	1028	864	635	333	362	390	293	191	264	52	15	7
RUNNING TOTALS	0	506	2151	3179	4043	4678	5011	5373	5763	6056	6247	6511	6563	6578	6585

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU*S/HR	STACK HEIGHTS IN FEET 431-450	451-500	501-550	551-600	601-650	651-700	701-750	751-800	801-850	851-900	901-950	951-1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1219	0
1- 10	0	1	1	0	0	0	0	0	0	0	0	0	0	2051	2051
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	926	2977
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	620	3597
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	463	4060
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	379	4439
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	283	4722
61- 70	0	0	1	0	0	0	0	0	0	0	0	0	0	209	4931
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	226	5157
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	143	5300
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	188	5488
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	802	6290
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	392	6682
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	218	6900
401- 500	1	0	0	0	0	0	0	0	0	0	0	0	0	124	7024
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	84	7108
601- 700	0	1	0	0	0	0	0	0	0	0	0	0	0	43	7151
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	50	7201
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	29	7230
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	19	7249
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	81	7330
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	23	7353
3001- 4000	0	1	0	0	0	0	0	0	0	0	0	0	0	7	7360
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7364
5001- 6000	0	0	0	0	0	0	0	0	1	0	0	0	0	3	7367
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7367
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7367
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7368
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7369
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7369
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7369
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7369
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7369
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7369
COLUMN TOTALS	1	3	2	0	0	0	0	0	1	0	0	0	0	8588	7369
CUM. TOTALS	6588	6589	6591	6591	6591	6591	6591	6591	6592	6592	6592	6592	6592		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL BOILERS AND ALL FUELS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.20	1.15	1.08	1.19	1.16	1.18	1.06	1.10	1.13
11-	20	1.07	1.81	1.47	1.43	1.36	1.42	1.52	1.44	1.58
21-	30	1.88	1.91	1.74	1.49	1.56	1.84	1.75	1.43	1.54
31-	40	1.90	1.71	1.72	1.77	1.82	1.42	1.92	1.82	1.88
41-	50	1.60	1.47	1.73	2.22	1.59	1.79	1.41	1.64	1.38
51-	60	2.36	1.89	1.83	2.57	1.76	2.00	2.42	2.00	1.54
61-	70	2.00	1.82	1.86	2.19	2.46	2.25	1.86	2.11	2.00
71-	80	2.44	3.00	1.84	1.86	2.14	2.08	1.90	1.60	2.00
81-	90	3.00	1.80	2.60	2.44	2.63	1.75	3.10	2.14	1.33
91-	100	1.25	2.13	1.91	3.13	2.11	1.92	2.14	2.25	3.00
101-	200	3.39	2.06	2.40	2.35	2.40	2.68	2.69	2.73	2.86
201-	300	3.35	1.69	2.27	2.69	2.83	3.38	3.00	2.91	2.80
301-	400	4.40	2.19	3.43	2.96	2.96	3.86	3.02	3.67	1.67
401-	500	4.40	1.57	3.28	2.57	3.50	3.85	4.00	3.57	3.75
501-	600	2.00	1.00	4.33	3.70	3.83	4.11	2.88	4.11	4.00
601-	700	5.00	2.20	5.00	3.00	3.25	2.67	1.00	4.50	5.00
701-	800	1.00	2.67	0.0	5.75	5.67	5.80	5.00	3.67	1.67
801-	900	3.00	0.0	3.50	5.00	5.27	5.27	2.75	5.67	4.50
901-	1000	0.0	0.0	4.00	3.33	5.50	0.0	4.43	9.00	5.67
1001-	2000	4.00	2.62	5.00	2.80	3.17	6.57	4.92	6.25	5.71
2001-	3000	5.00	5.80	4.00	5.00	10.50	17.33	3.00	5.25	0.0
3001-	4000	0.0	1.00	0.0	19.00	3.00	0.0	12.00	0.0	25.00
4001-	5000	0.0	0.0	0.0	8.00	0.0	12.00	0.0	17.00	9.00
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	9.00
6001-	7000	3.00	0.0	0.0	0.0	0.2	36.00	0.0	0.0	29.00
7001-	8000	0.0	5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		2.22	1.71	1.75	2.02	2.17	2.35	2.27	2.48	2.54
COLUMN TOTALS		0.0	1.71	1.74	1.85	1.93	2.00	2.03	2.07	2.10

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL BOILERS AND ALL FUELS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
ZERO 0	0.0	0.0	2.23	0.0	1.63	1.96	0.0	0.0
1- 10	1.08	1.04	1.14	0.0	1.42	1.19	1.14	1.19
11- 20	1.28	1.26	1.48	0.0	1.62	1.50	1.25	1.28
21- 30	1.36	1.64	1.66	0.0	1.65	1.66	1.33	1.35
31- 40	1.83	1.89	1.74	0.0	1.96	1.76	1.38	1.40
41- 50	2.20	1.71	1.73	0.0	1.56	1.71	1.41	1.43
51- 60	1.17	2.30	2.05	0.0	3.04	2.17	1.46	1.46
61- 70	1.83	1.57	2.06	0.0	2.00	2.05	1.49	1.51
71- 80	1.43	1.73	2.02	0.0	2.00	2.02	1.51	1.53
81- 90	1.33	2.00	2.22	0.0	2.18	2.22	1.54	1.55
91- 100	1.67	1.80	2.20	0.0	1.83	2.16	1.56	1.57
101- 200	2.25	2.58	2.54	0.0	3.30	2.62	1.70	1.72
201- 300	2.07	2.30	2.80	0.0	4.17	2.88	1.78	1.80
301- 400	3.89	2.70	3.09	0.0	2.71	3.06	1.83	1.85
401- 500	3.00	2.50	3.36	0.0	3.33	3.36	1.87	1.88
501- 600	3.00	1.67	3.43	0.0	3.89	3.48	1.90	1.91
601- 700	5.00	2.25	3.53	0.0	7.00	3.61	1.91	1.93
701- 800	3.50	5.50	4.42	0.0	4.33	4.41	1.93	1.95
801- 900	0.0	3.67	4.27	0.0	5.67	4.53	1.95	1.97
901- 1000	6.50	3.00	5.72	0.0	15.00	6.04	1.97	1.99
1001- 2000	5.21	6.70	4.34	0.0	6.32	5.12	2.04	2.06
2001- 3000	19.67	1.00	8.52	0.0	4.00	7.35	2.09	2.10
3001- 4000	14.70	3.00	11.13	0.0	11.33	11.11	2.10	2.12
4001- 5000	7.00	0.0	10.20	0.0	1.00	8.67	2.11	2.13
5001- 6000	0.0	0.0	4.00	0.0	0.0	4.00	2.11	2.13
6001- 7000	0.0	0.0	22.67	0.0	0.0	22.67	2.13	2.14
7001- 8000	4.00	0.0	6.00	0.0	0.0	6.00	2.13	2.14
8001- 9000	0.0	0.0	1.00	0.0	0.0	1.00	2.13	2.14
9001- 10000	0.0	0.0	8.00	0.0	1.00	4.50	2.13	2.14
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	2.13	2.14
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	2.13	2.14
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	2.13	2.14
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	2.13	2.14
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	2.13	2.14
COLUMN TOTALS	2.59	2.19	2.14	0.0	2.02	1.79		
CUMUL. TOTALS	2.12	2.12	2.12	2.12	2.11			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	143	0	0	0	0	0	0	0	0
1-	10	5	41	38	32	12	14	17	9	4
11-	20	6	30	11	17	18	22	8	12	5
21-	30	4	14	19	26	28	18	8	10	13
31-	40	5	15	17	25	18	22	17	5	9
41-	50	6	16	15	28	21	17	7	10	17
51-	60	4	15	10	14	19	27	10	18	3
61-	70	5	3	7	14	14	7	6	8	7
71-	80	1	16	12	15	21	25	5	7	8
81-	90	1	12	12	18	3	8	5	2	1
91-	100	2	9	14	19	26	13	12	2	11
101-	200	4	42	61	70	75	48	30	50	27
201-	300	7	22	14	25	21	14	17	13	14
301-	400	2	12	5	3	7	6	3	4	6
401-	500	0	13	3	3	0	1	6	3	2
501-	600	2	2	1	1	1	1	0	0	4
601-	700	0	3	0	0	1	1	0	1	0
701-	800	2	1	0	0	0	0	0	3	0
801-	900	1	1	1	0	0	1	1	0	0
901-	1000	0	1	1	0	0	0	0	0	0
1001-	2000	0	3	0	2	0	0	1	0	0
2001-	3000	0	1	0	0	0	0	0	1	1
3001-	4000	0	2	0	0	0	0	0	0	1
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	1	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-100000		0	0	0	0	0	0	0	0	0
COLUMN TOTALS		200	274	232	312	285	245	153	159	133
CUMUL. TOTALS		0	274	506	818	1103	1348	1501	1660	1793

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	143	0	70	213	0	0
1-	10	10	11	193	0	52	245	193	245
11-	20	5	9	143	0	39	182	336	427
21-	30	2	3	136	0	26	162	472	589
31-	40	12	6	151	0	18	169	623	758
41-	50	1	6	144	0	24	168	767	926
51-	60	4	7	131	0	8	139	898	1065
61-	70	5	6	82	0	11	93	980	1158
71-	80	1	5	116	0	11	127	1096	1285
81-	90	2	3	67	0	6	73	1163	1358
91-	100	6	4	118	0	3	121	1281	1479
101-	200	38	14	459	0	27	486	1740	1965
201-	300	11	8	166	0	5	171	1906	2136
301-	400	7	5	60	0	2	62	1966	2198
401-	500	3	1	35	0	4	39	2001	2237
501-	600	6	0	18	0	1	19	2019	2256
601-	700	6	1	13	0	1	14	2032	2270
701-	800	1	0	7	0	1	8	2039	2278
801-	900	0	0	5	0	3	8	2044	2286
901-	1000	0	0	2	0	0	2	2046	2288
1001-	2000	4	0	10	0	1	11	2056	2299
2001-	3000	0	0	3	0	0	3	2059	2302
3001-	4000	0	0	3	0	0	3	2062	2305
4001-	5000	0	0	0	0	0	0	2062	2305
5001-	6000	0	0	1	0	0	1	2063	2306
6001-	7000	0	0	0	0	0	0	2063	2306
7001-	8000	0	0	0	0	0	0	2063	2306
8001-	9000	0	0	0	0	0	0	2063	2306
9001-	10000	0	0	0	0	0	0	2063	2306
10001-	100000	0	0	0	0	0	0	2063	2306
COLUMN TOTALS		124	89	2206	0	313	2519		
CUMUL. TOTALS		1917	2006	2006	2006	2319			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	39	0	0	0	0	0	0	0	0
1-	10	3	27	22	16	8	9	13	2	2
11-	20	4	8	5	10	5	9	4	3	3
21-	30	0	7	10	12	4	2	4	4	6
31-	40	1	13	7	2	5	10	4	1	2
41-	50	0	8	4	4	6	7	3	3	2
51-	60	2	5	5	5	5	7	2	3	2
61-	70	1	2	2	7	4	3	3	3	0
71-	80	1	6	2	4	1	3	1	3	3
81-	90	1	3	4	6	2	3	1	3	1
91-	100	1	1	2	7	7	1	4	1	2
101-	200	3	18	13	20	20	23	12	15	13
201-	300	3	10	9	17	11	12	5	7	6
301-	400	0	5	7	11	11	3	5	6	1
401-	500	0	5	3	10	13	4	3	2	3
501-	600	1	1	5	7	2	2	0	2	3
601-	700	0	0	0	2	2	2	1	0	0
701-	800	1	2	0	2	0	2	3	1	1
801-	900	1	3	1	1	3	1	2	0	0
901-	1000	0	0	0	0	2	0	2	0	1
1001-	2000	0	9	1	8	1	5	3	2	4
2001-	3000	1	1	2	2	0	1	0	2	0
3001-	4000	0	0	0	0	0	0	1	0	0
4001-	5000	0	1	0	0	0	0	0	0	1
5001-	6000	0	0	0	0	0	0	0	2	0
6001-	7000	0	0	0	0	0	0	0	0	1
7001-	8000	0	1	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		63	136	104	153	112	109	76	65	57
CUMUL. TOTALS		0	136	240	393	505	614	690	755	812

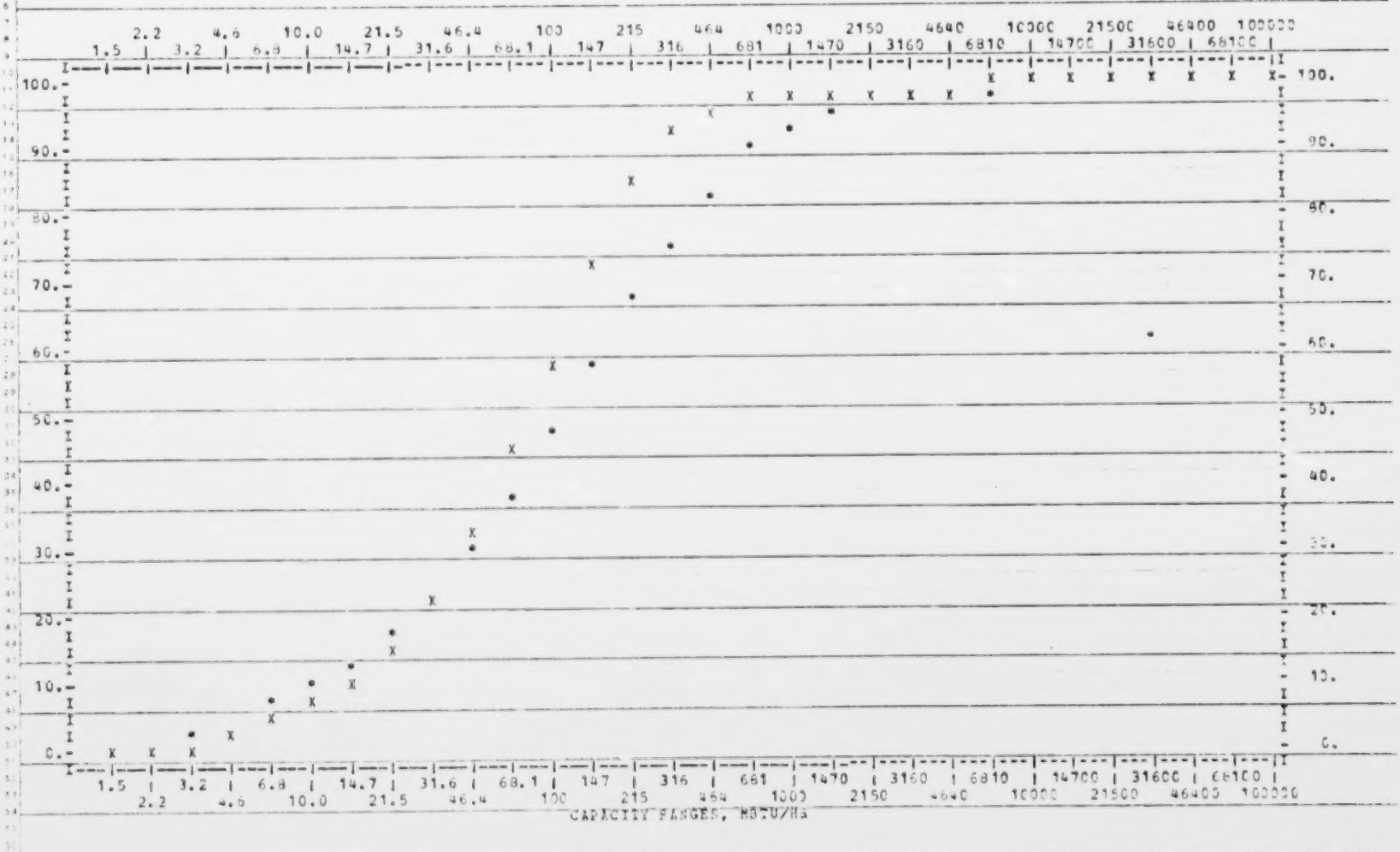
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0	0	39	0	44	83	0	0
1- 10	9	2	113	0	31	144	113	144
11- 20	0	7	58	0	8	66	171	210
21- 30	3	0	52	0	14	66	223	276
31- 40	3	5	53	0	7	60	276	336
41- 50	1	2	40	0	9	49	316	385
51- 60	1	2	39	0	7	46	355	431
61- 70	2	2	29	0	4	33	384	464
71- 80	2	2	28	0	2	30	412	494
81- 90	1	0	25	0	2	27	437	521
91- 100	1	1	28	0	1	29	465	550
101- 200	7	10	154	0	11	165	619	715
201- 300	7	2	80	0	7	96	708	811
301- 400	1	3	53	0	0	53	761	864
401- 500	4	1	48	0	0	48	809	912
501- 600	5	0	28	0	5	33	837	945
601- 700	3	0	10	0	1	11	847	956
701- 800	0	1	13	0	1	14	860	970
801- 900	0	0	12	0	2	14	872	984
901- 1000	0	1	6	0	0	6	878	990
1001- 2000	4	1	36	0	2	40	916	1030
2001- 3000	1	0	10	0	1	11	926	1041
3001- 4000	0	0	1	0	0	1	927	1042
4001- 5000	0	0	2	0	0	2	929	1044
5001- 6000	0	0	2	0	0	2	931	1046
6001- 7000	0	0	1	0	0	1	932	1047
7001- 8000	1	0	2	0	0	2	934	1049
8001- 9000	0	0	0	0	0	0	934	1049
9001- 10000	0	0	0	0	0	0	934	1049
10001- 20000	0	0	0	0	0	0	934	1049
20001- 30000	0	0	0	0	0	0	934	1049
30001- 40000	0	0	0	0	0	0	934	1049
40001- 50000	0	0	0	0	0	0	934	1049
50001-100000	0	0	0	0	0	0	934	1049
COLUMN TOTALS	56	42	973	0	159	1132		
CUMUL. TOTALS	868	910	910	910	1069			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

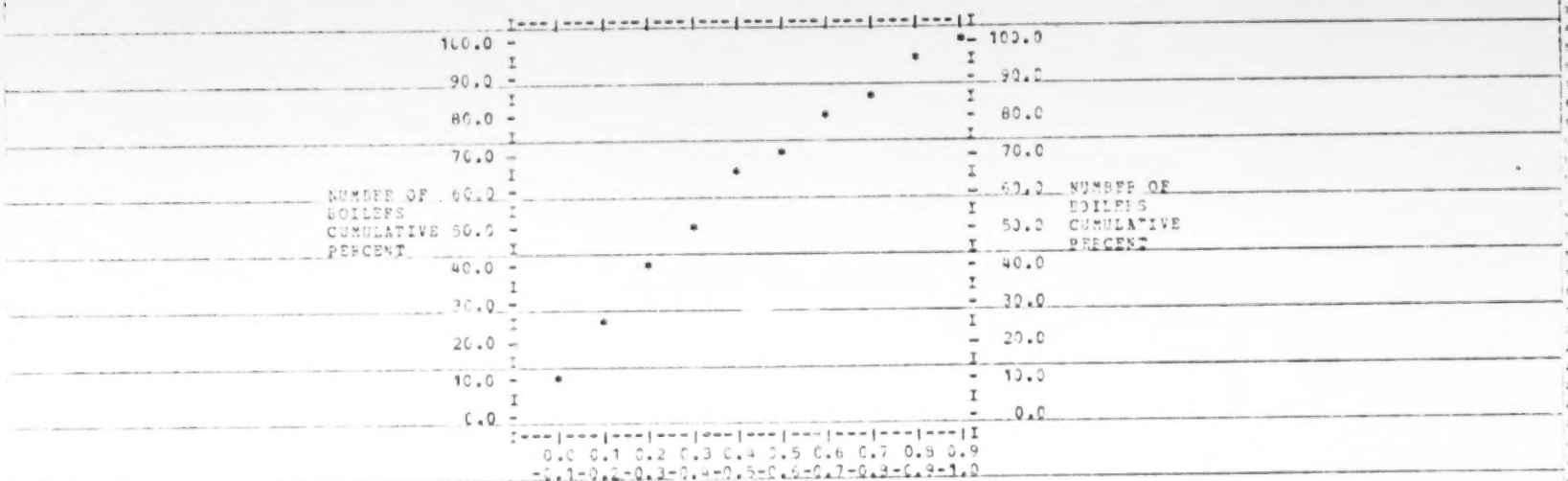
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS

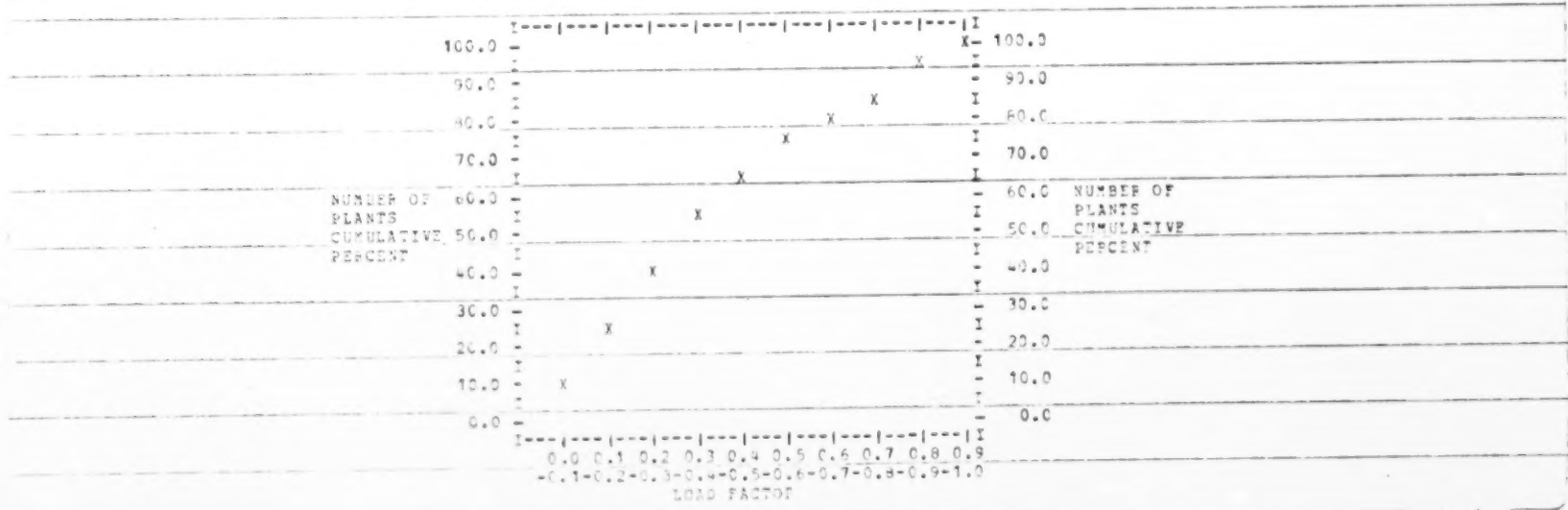


NUMBER OF BOILERS (ALL DATA) = 2519 NUMBER OF BOILERS (RELIABLE DATA) = 2006
NUMBER OF PLANTS (ALL DATA) = 1132 NUMBER OF PLANTS (RELIABLE DATA) = 910

IC1-5

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTORS

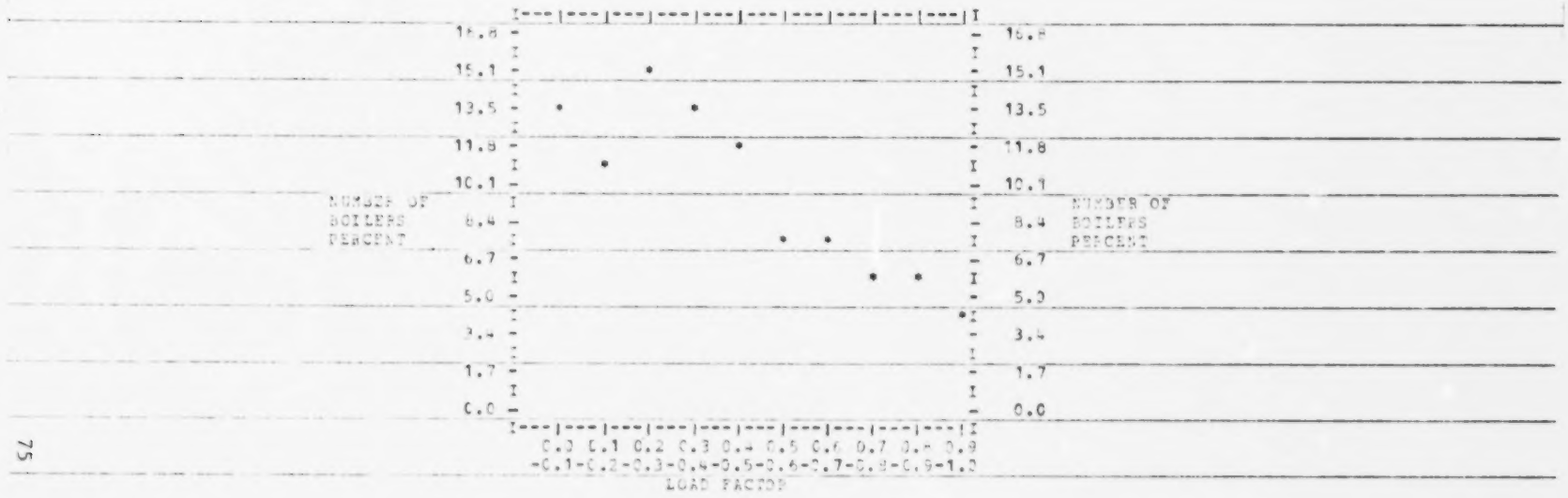


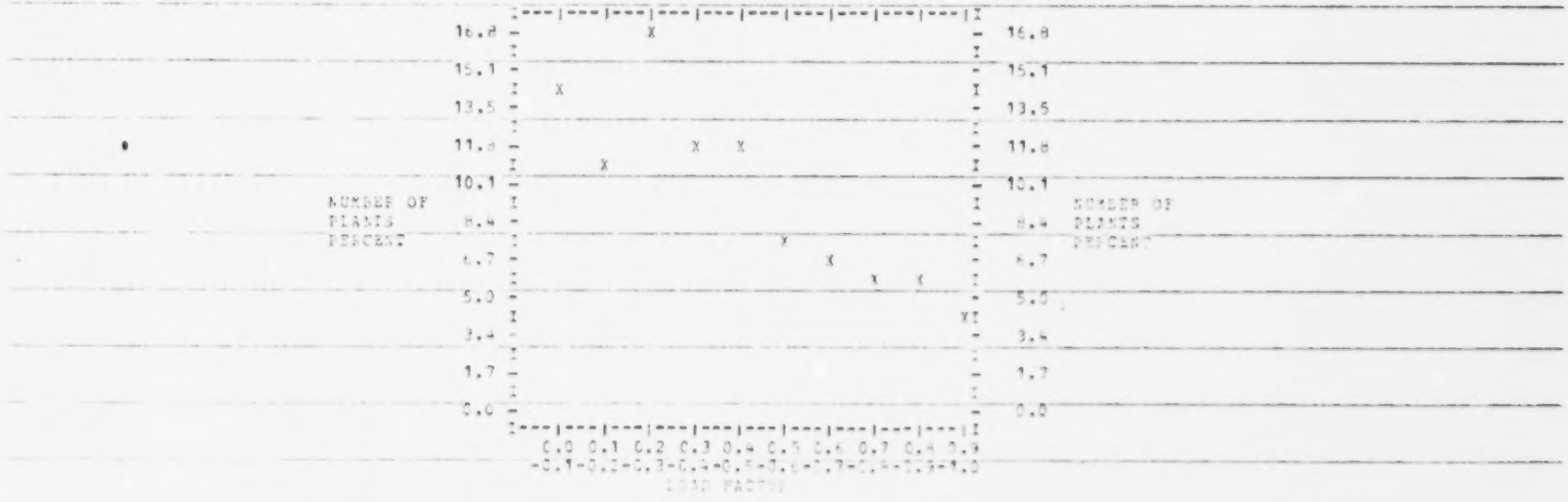


IC1-6

NUMBER OF BOILERS (ALL DATA) = 2519 NUMBER OF BOILERS (RELIABLE DATA) = 2006
NUMBER OF PLANTS (ALL DATA) = 1132 NUMBER OF PLANTS (RELIABLE DATA) = 910

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTOR DENSITIES





NUMBER OF BOILERS (ALL DATA) = 2510 NUMBER OF BOILERS (RELIABLE DATA) = 2054
NUMBER OF PLANTS (ALL DATA) = 1132 NUMBER OF PLANTS (RELIABLE DATA) = 913

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	18.	241.	191.	173.	67.	81.	104.	47.	22.
11-	20	101.	481.	172.	271.	310.	356.	149.	172.	81.
21-	30	106.	360.	248.	672.	720.	479.	190.	288.	336.
31-	40	191.	547.	632.	908.	621.	813.	619.	174.	916.
41-	50	285.	741.	686.	1328.	979.	618.	316.	465.	826.
51-	60	234.	823.	577.	819.	1096.	1532.	577.	1014.	161.
61-	70	338.	184.	463.	921.	931.	459.	390.	520.	480.
71-	80	76.	1217.	899.	1143.	1998.	1319.	341.	526.	603.
81-	90	89.	1025.	1033.	1551.	255.	702.	426.	162.	85.
91-	100	200.	869.	1373.	1484.	2537.	1256.	1175.	193.	1053.
101-	200	498.	5853.	9129.	10121.	11157.	6913.	4540.	7773.	3622.
201-	300	1681.	5267.	3049.	6250.	5142.	3271.	4112.	3464.	3829.
301-	400	780.	3771.	1865.	1119.	2532.	2007.	995.	1364.	2294.
401-	500	0.	6009.	1440.	1356.	0.	432.	2751.	1367.	936.
501-	600	1180.	1103.	597.	531.	538.	600.	0.	0.	2082.
601-	700	0.	1901.	0.	0.	660.	660.	0.	602.	0.
701-	800	1585.	721.	0.	0.	0.	0.	0.	2235.	0.
801-	900	850.	852.	840.	0.	0.	855.	850.	0.	0.
901-	1000	0.	988.	930.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	4055.	0.	3124.	0.	0.	1114.	0.	0.
2001-	3000	0.	2100.	0.	0.	0.	0.	0.	2590.	2581.
3001-	4000	0.	7800.	0.	0.	0.	0.	0.	0.	3017.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	5068.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		8214.	46708.	24125.	32152.	29100.	23226.	18665.	28007.	22328.
CUMUL. TOTALS		0.	46708.	70833.	102985.	132085.	155311.	173976.	201983.	224307.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	POW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	38.	14.	611.	0.	102.	713.	611.	713.
11- 20	0.	99.	919.	0.	130.	1049.	1530.	1762.
21- 30	82.	0.	1326.	0.	365.	1691.	2856.	3453.
31- 40	117.	191.	1947.	0.	261.	2208.	4803.	5661.
41- 50	44.	47.	1869.	0.	416.	2285.	6672.	7946.
51- 60	56.	112.	2187.	0.	394.	2581.	8859.	10527.
61- 70	132.	138.	1951.	0.	262.	2213.	10810.	12740.
71- 80	156.	154.	2142.	0.	152.	2294.	12952.	15034.
81- 90	65.	0.	2164.	0.	172.	2326.	15106.	17360.
91- 100	100.	96.	2745.	0.	96.	2841.	17851.	20201.
101- 200	1084.	1399.	22470.	0.	1672.	24142.	40321.	44143.
201- 300	1717.	493.	21924.	0.	1755.	23679.	62245.	68022.
301- 400	310.	1027.	18686.	0.	0.	18686.	81131.	86908.
401- 500	1800.	430.	21895.	0.	0.	21895.	103026.	108803.
501- 600	2798.	0.	15884.	0.	2753.	18637.	118910.	127440.
601- 700	1964.	0.	6558.	0.	680.	7238.	125468.	134678.
701- 800	0.	740.	9802.	0.	750.	10552.	135270.	145230.
801- 900	0.	0.	10292.	0.	1748.	12040.	145562.	157270.
901- 1000	0.	955.	5696.	0.	0.	5696.	151258.	162966.
1001- 2000	5924.	1369.	51703.	0.	3620.	55323.	202961.	218289.
2001- 3000	2372.	0.	24356.	0.	2810.	27166.	227317.	245455.
3001- 4000	0.	0.	3100.	0.	0.	3100.	230417.	248555.
4001- 5000	0.	0.	9017.	0.	0.	9017.	239434.	257572.
5001- 6000	0.	0.	10239.	0.	0.	10239.	249673.	267811.
6001- 7000	0.	0.	6599.	0.	0.	6599.	256272.	274410.
7001- 8000	7397.	0.	14997.	0.	0.	14997.	271269.	289407.
8001- 9000	0.	0.	0.	0.	0.	0.	271269.	289407.
9001- 10000	0.	0.	0.	0.	0.	0.	271269.	289407.
10001- 20000	0.	0.	0.	0.	0.	0.	271269.	289407.
20001- 30000	0.	0.	0.	0.	0.	0.	271269.	289407.
30001- 40000	0.	0.	0.	0.	0.	0.	271269.	289407.
40001- 50000	0.	0.	0.	0.	0.	0.	271269.	289407.
50001-100000	0.	0.	0.	0.	0.	0.	271269.	289407.
COLUMN TOTALS	26179.	7314.	271269.	0.	18138.	289407.		
CUMUL. TOTALS	257867.	265181.	265181.	265181.	283319.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

PLANT LOAD FACTORS

CAPACITY MBTU'S/HR		EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	11.	145.	97.	97.	46.	55.	91.	9.	8.
11-	20	67.	127.	87.	159.	87.	142.	59.	44.	51.
21-	30	0.	177.	249.	304.	109.	43.	95.	113.	148.
31-	40	38.	472.	258.	78.	166.	373.	142.	39.	73.
41-	50	0.	366.	187.	182.	292.	335.	135.	138.	93.
51-	60	114.	274.	289.	276.	289.	395.	105.	171.	106.
61-	70	70.	130.	140.	467.	268.	208.	198.	200.	0.
71-	80	80.	449.	157.	302.	80.	228.	80.	230.	224.
81-	90	89.	263.	349.	511.	170.	261.	85.	256.	85.
91-	100	100.	100.	200.	687.	693.	93.	388.	94.	194.
101-	200	439.	2440.	1966.	2769.	2831.	3402.	1889.	2225.	1968.
201-	300	595.	2465.	2273.	4176.	2601.	2859.	1246.	1751.	1649.
301-	400	0.	1788.	2616.	3373.	3837.	1047.	1773.	2165.	350.
401-	500	0.	2304.	1418.	4581.	5785.	1892.	1406.	910.	1369.
501-	600	590.	600.	2881.	3871.	1169.	1194.	0.	1128.	1653.
601-	700	0.	0.	0.	1319.	1345.	1328.	602.	0.	0.
701-	800	800.	1441.	0.	1580.	0.	1493.	2273.	754.	721.
801-	900	850.	2538.	832.	890.	2590.	866.	1728.	0.	0.
901-	1000	0.	0.	0.	0.	1892.	0.	1945.	0.	904.
1001-	2000	0.	11797.	1148.	11547.	1069.	6941.	3862.	2620.	5426.
2001-	3000	2155.	2194.	5220.	5518.	0.	2032.	0.	4865.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	3100.	0.	0.
4001-	5000	0.	4220.	0.	0.	0.	0.	0.	0.	4795.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	10239.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	6599.
7001-	8000	0.	7600.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		6088.	41890.	20367.	45287.	25319.	25260.	27148.	27951.	26416.
CUMUL. TOTALS		0.	41890.	62257.	105544.	130863.	156123.	177323.	205273.	231689.

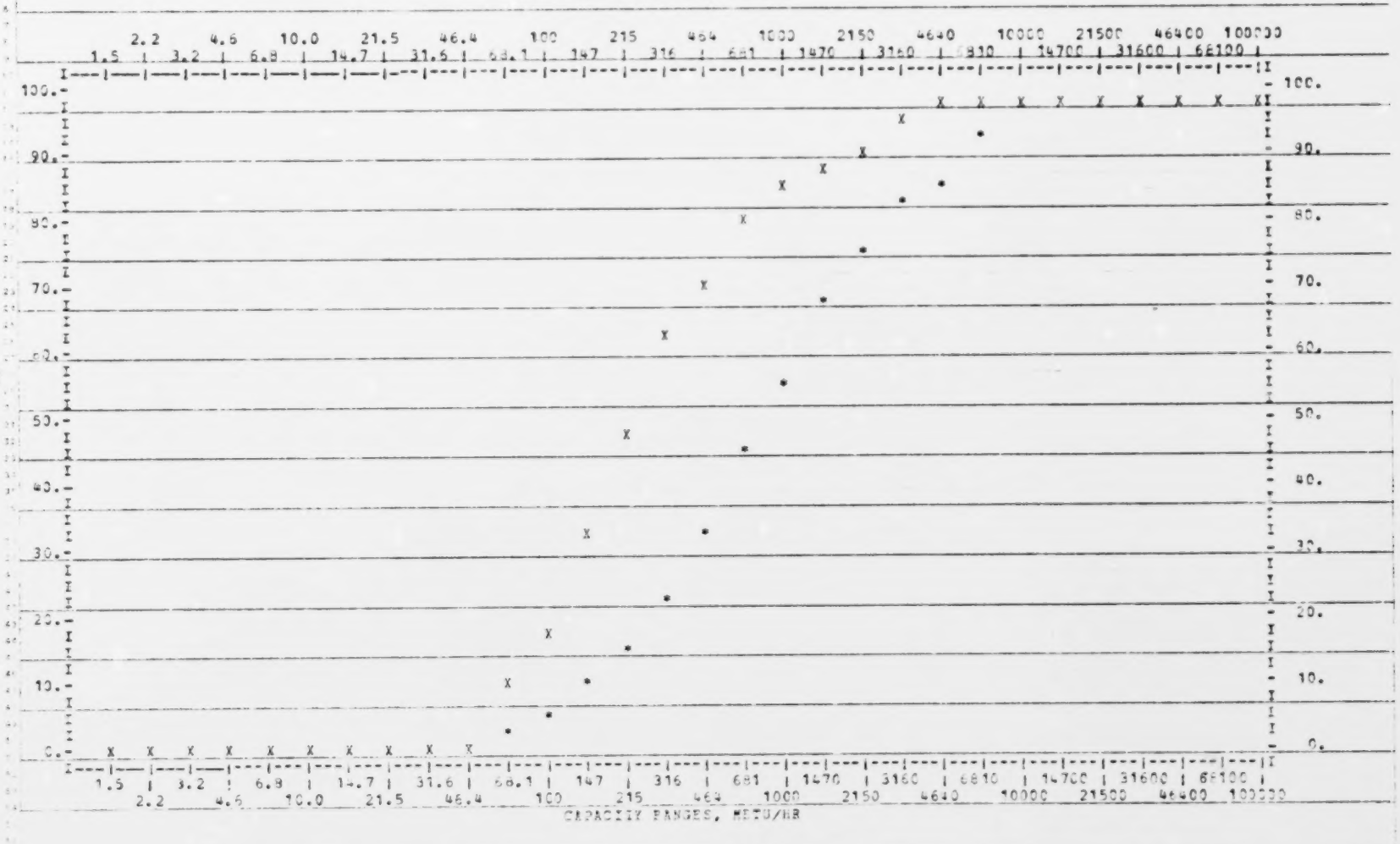
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	38.	14.	611.	0.	102.	713.	611.	713.
11-	20	0.	99.	919.	0.	130.	1049.	1530.	1762.
21-	30	82.	0.	1326.	0.	365.	1691.	2856.	3453.
31-	40	117.	191.	1947.	0.	261.	2208.	4803.	5661.
41-	50	44.	97.	1869.	0.	416.	2285.	6672.	7946.
51-	60	56.	112.	2187.	0.	394.	2581.	8859.	10527.
61-	70	132.	138.	1951.	0.	262.	2213.	10810.	12740.
71-	80	158.	154.	2142.	0.	152.	2294.	12952.	15034.
81-	90	85.	0.	2154.	0.	172.	2326.	15106.	17360.
91-	100	100.	96.	2745.	0.	96.	2841.	17851.	20201.
101-	200	1084.	1399.	22470.	0.	1672.	24142.	40321.	44343.
201-	300	1717.	493.	21924.	0.	1755.	23679.	62245.	68022.
301-	400	310.	1027.	18886.	0.	0.	18886.	81131.	86908.
401-	500	1800.	430.	21895.	0.	0.	21895.	103026.	108803.
501-	600	2798.	0.	15884.	0.	2753.	18637.	118910.	127440.
601-	700	1964.	0.	6558.	0.	680.	7238.	125468.	134678.
701-	800	0.	740.	9802.	0.	750.	10552.	135270.	145230.
801-	900	0.	0.	10292.	0.	1748.	12040.	145562.	157270.
901-	1000	0.	955.	5696.	0.	0.	5696.	151258.	162966.
1001-	2000	5924.	1369.	51703.	0.	3620.	55323.	202961.	218289.
2001-	3000	2372.	0.	24356.	0.	2810.	27166.	227317.	245455.
3001-	4000	0.	0.	3100.	0.	0.	3100.	230417.	248555.
4001-	5000	0.	0.	9017.	0.	0.	9017.	239434.	257572.
5001-	6000	0.	0.	10239.	0.	0.	10239.	249673.	267811.
6001-	7000	0.	0.	6599.	0.	0.	6599.	256272.	274410.
7001-	8000	7397.	0.	14997.	0.	0.	14997.	271269.	289407.
8001-	9000	0.	0.	0.	0.	0.	0.	271269.	289407.
9001-	10000	0.	0.	0.	0.	0.	0.	271269.	289407.
10001-	20000	0.	0.	0.	0.	0.	0.	271269.	289407.
20001-	30000	0.	0.	0.	0.	0.	0.	271269.	289407.
30001-	40000	0.	0.	0.	0.	0.	0.	271269.	289407.
40001-	50000	0.	0.	0.	0.	0.	0.	271269.	289407.
50001-	100000	0.	0.	0.	0.	0.	0.	271269.	289407.
COLUMN TOTALS		26178.	7314.	271269.	0.	18138.	289407.		
CUMUL. TOTALS		257867.	265181.	265181.	265181.	283319.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

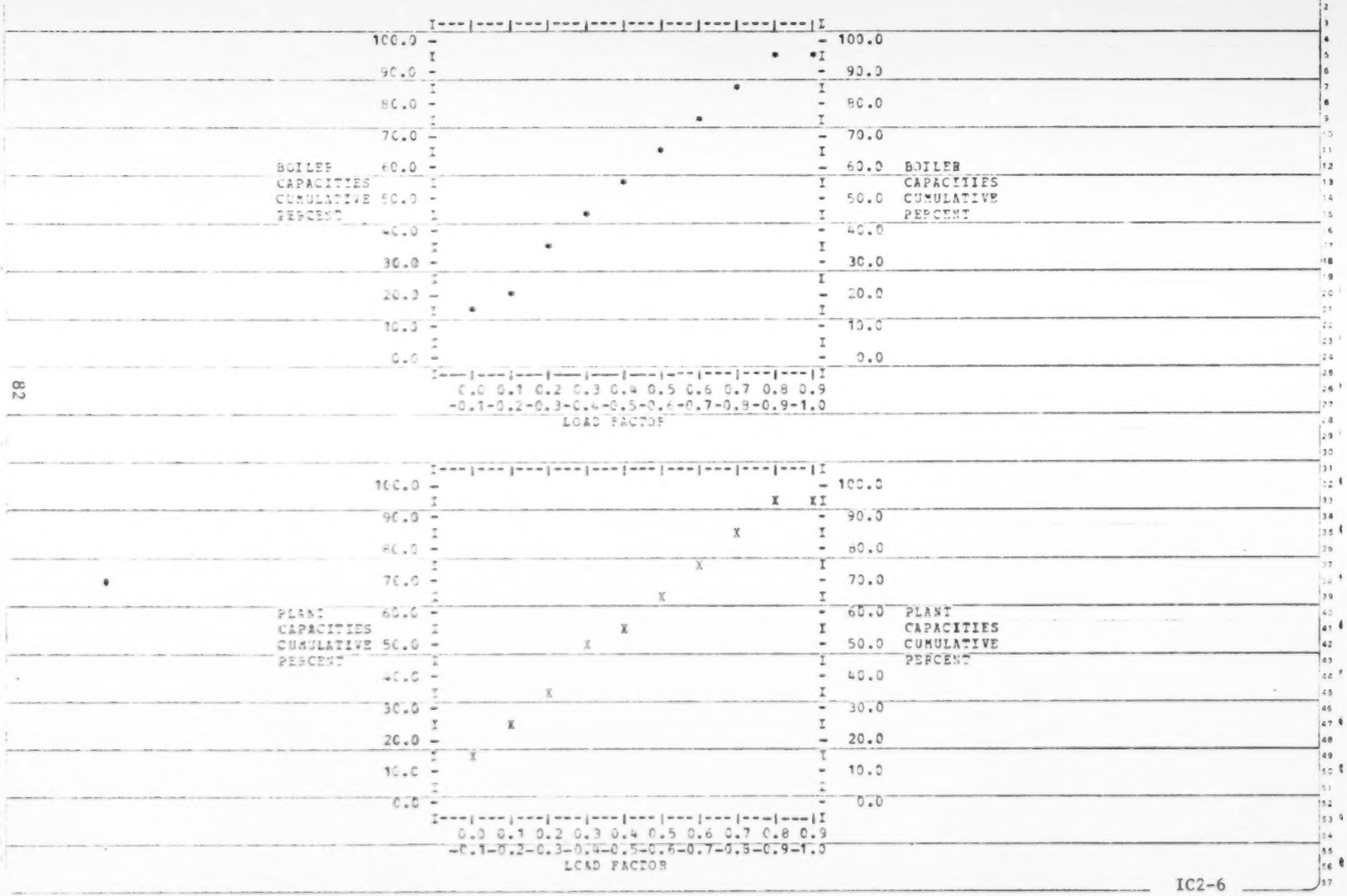
X--INDIVIDUAL BOILERS
*--PLANTS



BOILER CAPACITIES (ALL DATA) = 289407. BOILER CAPACITIES (RELIABLE DATA) = 261763.
PLANT CAPACITIES (ALL DATA) = 289407. PLANT CAPACITIES (RELIABLE DATA) = 265181.

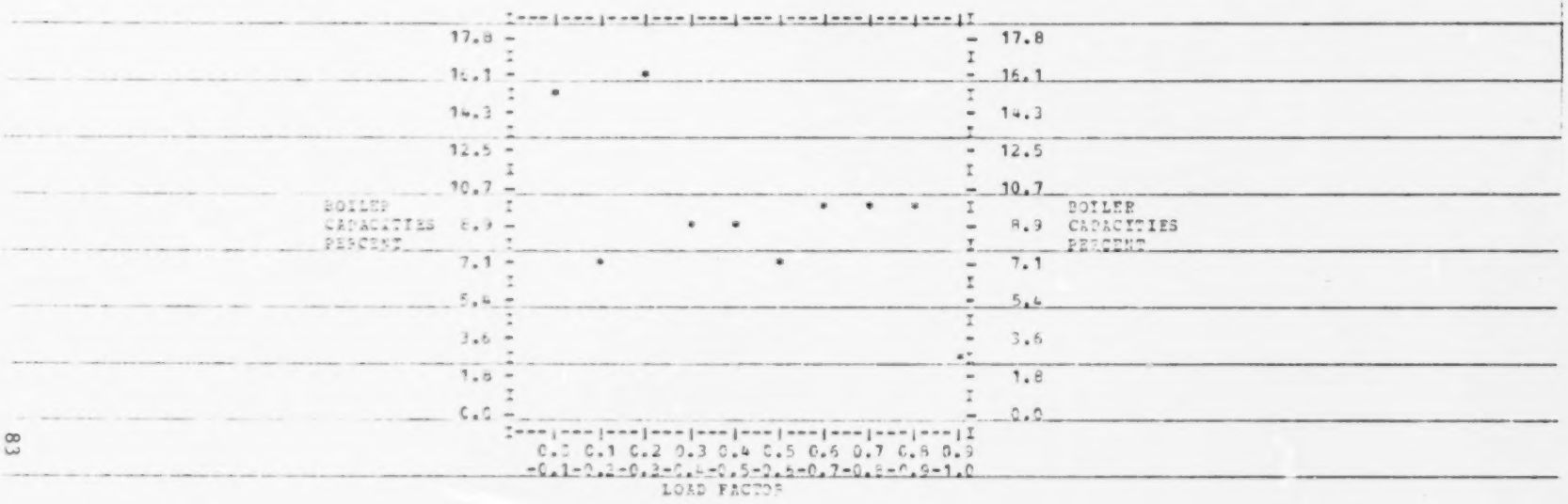
IC2-5

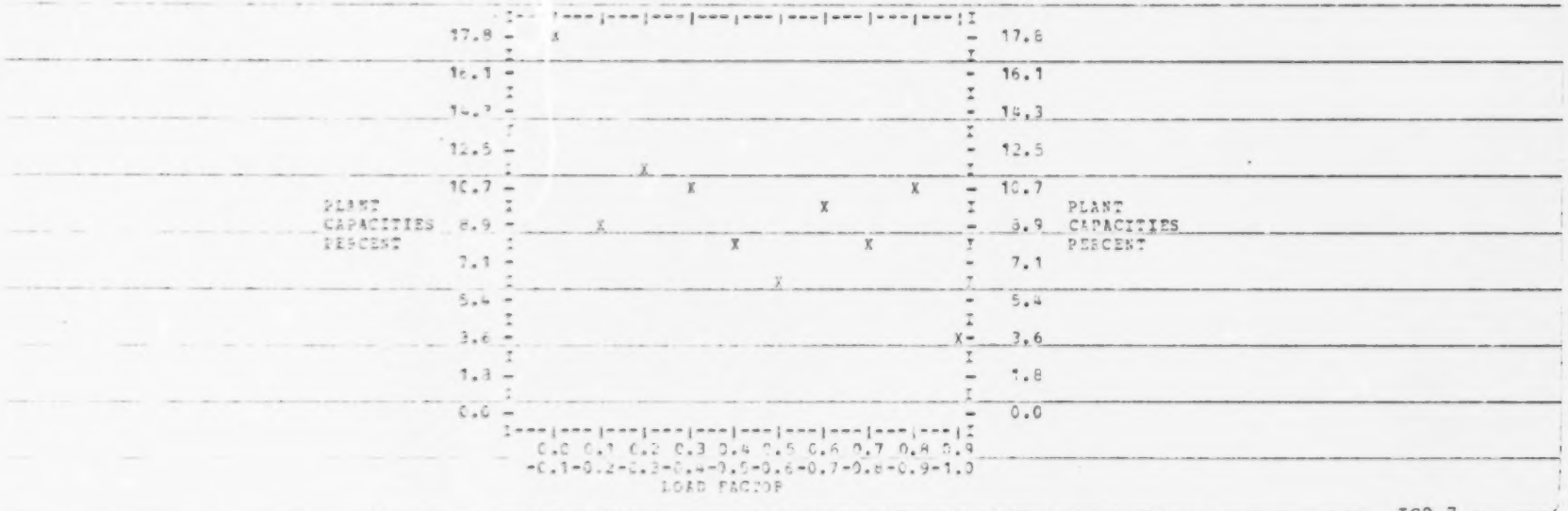
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTORS



BOILER CAPACITIES (ALL DATA) = 289407. BOILER CAPACITIES (RELIABLE DATA) = 261763.
PLANT CAPACITIES (ALL DATA) = 289407. PLANT CAPACITIES (RELIABLE DATA) = 265181.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTOR DENSITIES





IC2-7

BOILER CAPACITIES (ALL DATA) = 269.07. BOILER CAPACITIES (RELIABLE DATA) = 241.93.
PLANT CAPACITIES (ALL DATA) = 269.07. PLANT CAPACITIES (RELIABLE DATA) = 241.93.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
EQUAL 0	146	3	0	0	2	15	6	4	2
1- 10	11	2	2	3	11	49	43	11	15
11- 20	8	1	2	0	10	34	28	16	3
21- 30	8	0	2	0	6	25	18	6	15
31- 40	5	1	0	0	2	27	20	12	16
41- 50	6	0	0	0	2	21	22	16	6
51- 60	5	0	0	6	4	18	27	17	4
61- 70	5	0	0	0	4	9	13	11	2
71- 80	1	1	0	0	4	23	16	9	3
81- 90	2	0	0	0	0	11	9	3	0
91- 100	3	0	0	0	1	17	13	13	4
101- 200	6	0	1	0	23	37	104	37	19
201- 300	7	0	0	1	3	10	23	12	9
301- 400	3	0	0	0	5	9	3	8	5
401- 500	0	0	0	0	0	4	6	1	1
501- 600	2	0	0	0	0	0	1	0	2
601- 700	0	0	0	0	0	0	5	0	0
701- 800	2	0	0	1	0	0	0	0	0
801- 900	1	0	0	1	0	2	1	0	1
901- 1000	0	0	0	0	0	0	0	0	0
1001- 2000	0	0	0	0	0	4	1	0	0
2001- 3000	0	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0
10001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	221	8	7	12	77	315	359	176	107
CUMUL. TOTALS	221	229	236	248	325	640	999	1175	1282

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL	0	7	4	13	8	1	2	0	213	213
1-	10	17	16	44	14	5	2	1	245	458
11-	20	9	20	11	11	4	5	0	182	640
21-	30	22	15	24	13	9	0	2	192	832
31-	40	23	29	14	9	7	0	2	139	971
41-	50	11	33	14	14	10	1	12	168	1139
51-	60	8	17	17	7	6	3	0	139	1278
61-	70	10	7	20	2	9	1	0	93	1371
71-	80	18	13	22	14	1	0	2	127	1498
81-	90	8	10	23	1	1	0	1	73	1571
91-	100	10	19	31	9	0	1	0	121	1692
101-	200	45	41	95	46	26	2	4	486	2178
201-	300	14	22	23	24	7	10	6	171	2349
301-	400	8	2	5	6	6	2	0	62	2411
401-	500	11	1	6	5	4	0	0	39	2450
501-	600	1	1	5	4	3	0	0	19	2469
601-	700	3	2	1	1	1	1	0	14	2483
701-	800	0	0	4	1	0	0	0	8	2491
801-	900	0	0	1	0	1	0	0	8	2499
901-	1000	1	0	1	0	0	0	0	2	2501
1001-	2000	0	0	0	5	1	0	5	11	2512
2001-	3000	2	0	0	0	0	1	0	3	2515
3001-	4000	0	0	2	1	0	0	0	3	2518
4001-	5000	0	0	0	0	0	0	0	0	2518
5001-	6000	0	0	0	0	0	0	1	1	2519
6001-	7000	0	0	0	0	0	0	0	0	2519
7001-	8000	0	0	0	0	0	0	0	0	2519
8001-	9000	0	0	0	0	0	0	0	0	2519
9001-	10000	0	0	0	0	0	0	0	0	2519
10001-100000		0	0	0	0	0	0	0	0	2519
COLUMN TOTALS		228	252	404	195	102	31	25	2519	
CUMUL. TOTALS		1510	1762	2166	2361	2463	2494	2519		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	42	3	0	0	2	12	3	2	1
1-	10	9	2	2	2	8	23	27	6	9
11-	20	5	0	0	0	3	10	15	3	2
21-	30	2	0	0	0	5	9	14	2	5
31-	40	1	1	1	1	1	5	9	6	5
41-	50	0	0	1	0	4	10	12	2	3
51-	60	4	0	0	0	1	9	9	1	2
61-	70	1	0	0	0	0	5	1	4	2
71-	80	1	0	0	0	0	8	5	3	2
81-	90	1	0	0	0	0	3	2	2	3
91-	100	2	0	0	0	2	2	2	1	1
101-	200	4	0	0	0	7	25	23	17	7
201-	300	3	0	0	1	3	10	15	4	2
301-	400	1	0	0	0	4	1	8	5	3
401-	500	0	0	0	0	1	6	10	1	2
501-	600	1	0	0	0	0	5	8	1	1
601-	700	0	0	0	0	0	0	1	0	0
701-	800	1	0	0	0	0	1	3	2	0
801-	900	1	0	0	0	0	0	1	2	1
901-	1000	0	0	0	0	1	0	1	1	0
1001-	2000	0	0	0	0	2	9	1	3	3
2001-	3000	1	0	0	0	0	0	2	0	0
3001-	4000	0	0	0	0	0	0	1	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	1	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		81	6	4	4	44	153	176	69	50
CUMUL. TOTALS		81	87	91	95	139	292	468	537	587

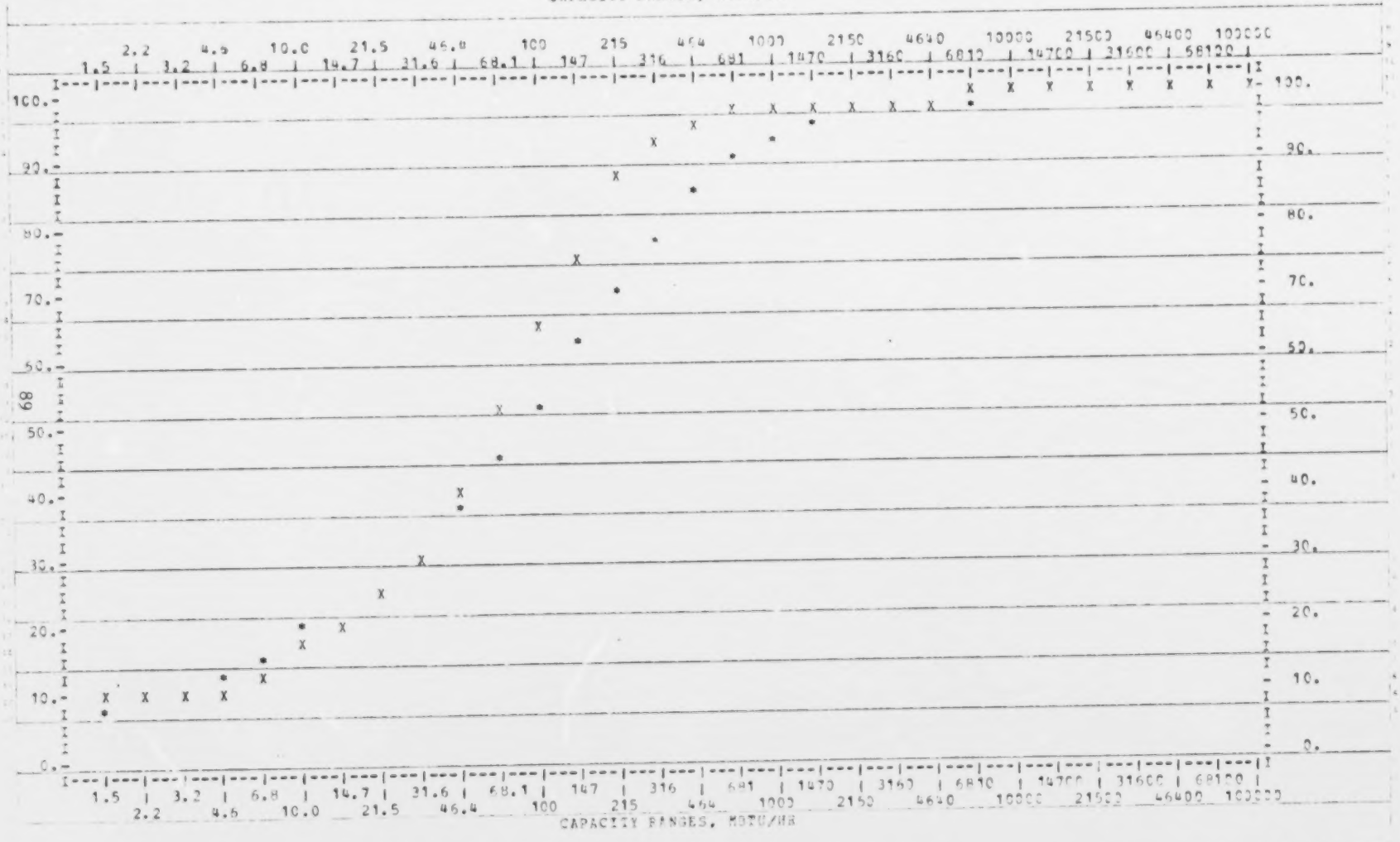
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL	0	5	2	5	2	1	2	0	83	83
1-	10	13	7	28	9	2	1	0	144	227
11-	20	4	4	14	4	1	0	0	66	293
21-	30	3	7	13	6	3	0	0	66	359
31-	40	5	8	9	5	2	1	0	60	419
41-	50	6	2	8	0	1	0	0	49	468
51-	60	4	6	6	4	0	0	0	46	514
61-	70	3	8	7	2	0	0	0	33	547
71-	80	6	2	2	0	1	0	0	30	577
81-	90	1	5	5	1	3	0	1	27	604
91-	100	4	7	3	3	1	1	0	29	633
101-	200	15	22	22	11	7	2	3	165	798
201-	300	7	13	23	9	3	0	2	96	894
301-	400	2	6	14	5	3	0	0	53	947
401-	500	5	1	14	6	2	0	0	48	995
501-	600	5	2	8	1	1	0	0	33	1028
601-	700	3	1	1	5	0	0	0	11	1039
701-	800	1	2	1	2	0	1	0	14	1053
801-	900	1	0	4	3	0	1	0	14	1067
901-	1000	1	0	1	0	0	1	0	6	1073
1001-	2000	5	5	5	5	1	0	1	40	1113
2001-	3000	1	1	2	1	2	1	0	11	1124
3001-	4000	0	0	0	0	0	0	0	1	1125
4001-	5000	1	0	0	0	1	0	0	2	1127
5001-	6000	1	0	0	0	0	0	1	2	1129
6001-	7000	0	0	0	0	0	0	0	1	1130
7001-	8000	0	0	1	1	0	0	0	2	1132
8001-	9000	0	0	0	0	0	0	0	0	1132
9001-	10000	0	0	0	0	0	0	0	0	1132
10001-	20000	0	0	0	0	0	0	0	0	1132
20001-	30000	0	0	0	0	0	0	0	0	1132
30001-	40000	0	0	0	0	0	0	0	0	1132
40001-	50000	0	0	0	0	0	0	0	0	1132
50001-	100000	0	0	0	0	0	0	0	0	1132
COLUMN TOTALS		102	111	193	85	35	11	8	1132	
CUMUL. TOTALS		689	800	993	1078	1113	1124	1132		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

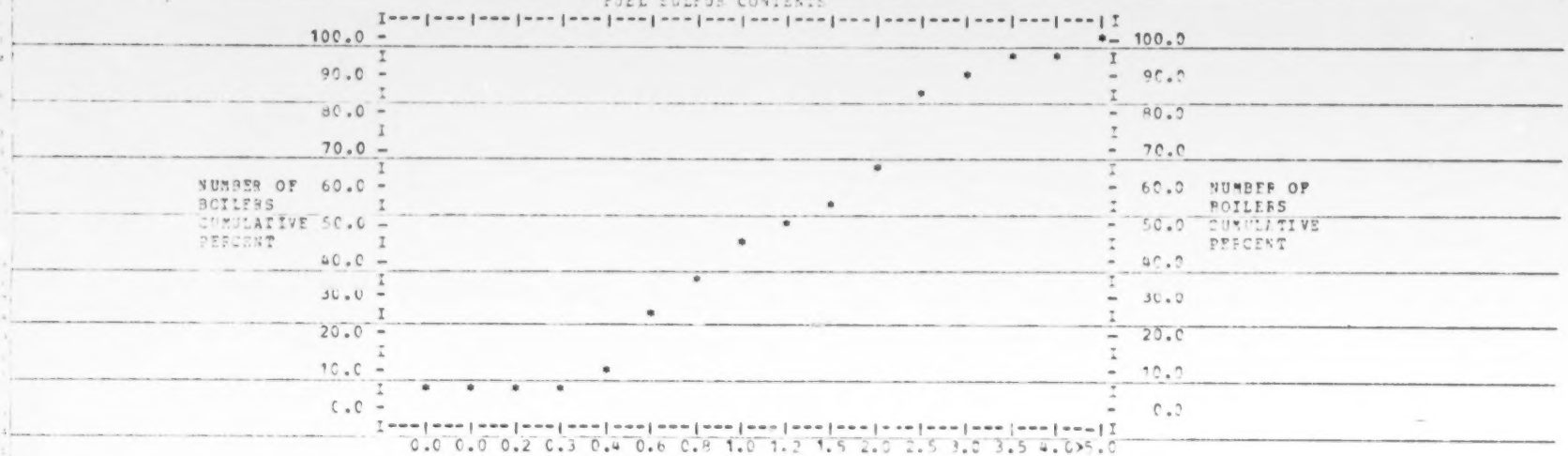
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS

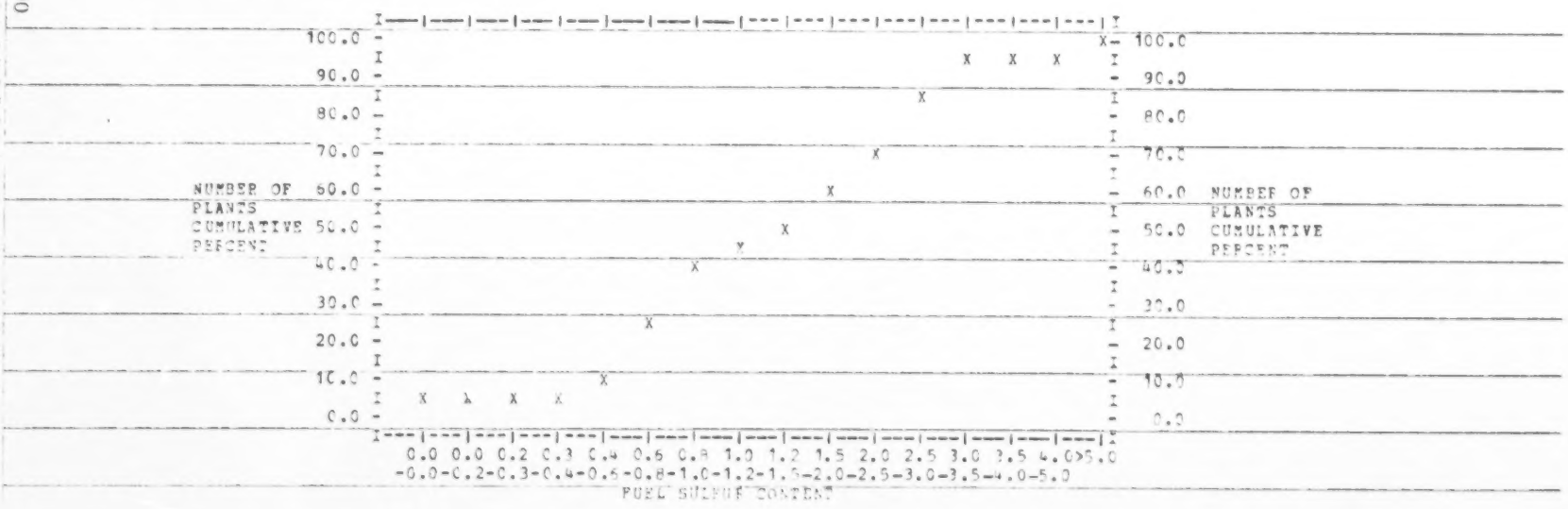


NUMBER OF BOILERS (ALL DATA) = 2519
NUMBER OF PLANTS (ALL DATA) = 1132

IC3-5

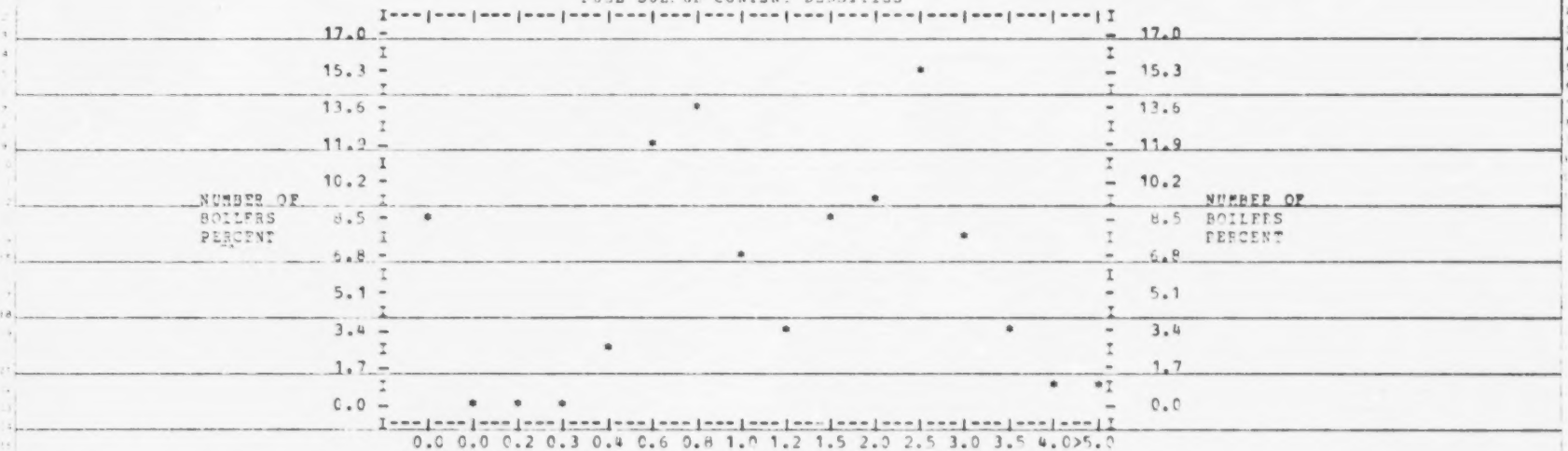
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENTS

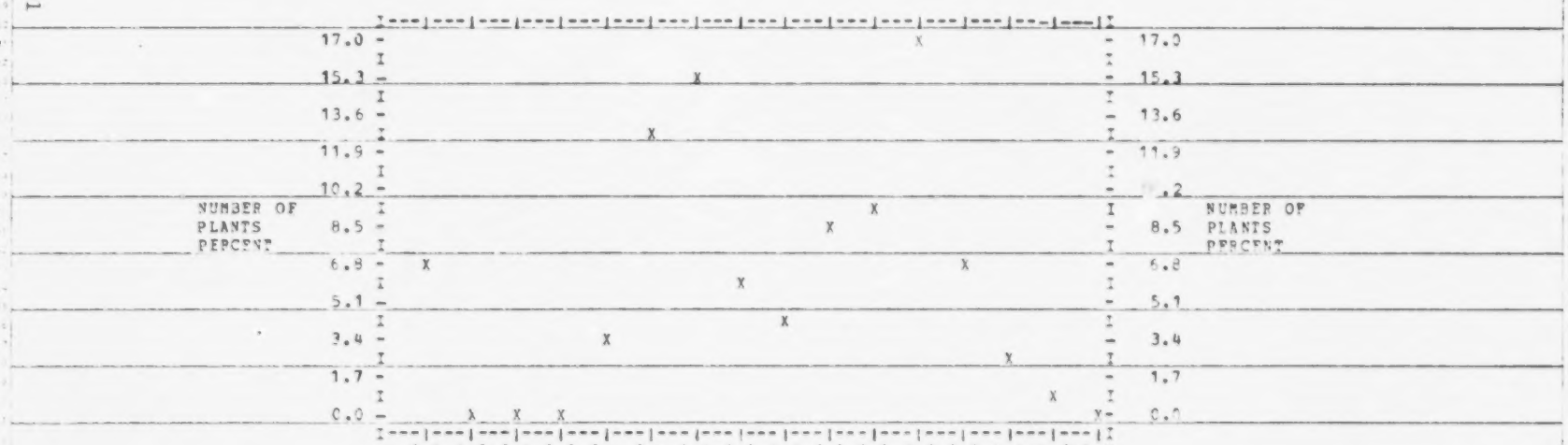




NUMBER OF BOILERS (ALL DATA) = 2519
NUMBER OF PLANTS (ALL DATA) = 1132

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 2519
NUMBER OF PLANTS (ALL DATA) = 1132

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	56.	14.	7.	19.	45.	266.	215.	52.	66.
11-	20	126.	15.	40.	0.	162.	514.	464.	279.	43.
21-	30	208.	0.	50.	0.	151.	647.	450.	153.	391.
31-	40	191.	36.	0.	0.	77.	980.	707.	430.	542.
41-	50	285.	0.	0.	0.	91.	954.	990.	761.	261.
51-	60	294.	0.	0.	360.	220.	1059.	1550.	943.	223.
61-	70	338.	0.	0.	0.	256.	604.	864.	709.	126.
71-	80	76.	75.	0.	0.	308.	1684.	1242.	681.	222.
81-	90	179.	0.	0.	0.	0.	933.	770.	259.	0.
91-	100	300.	0.	0.	0.	100.	1451.	1250.	1241.	382.
101-	200	801.	0.	103.	0.	3630.	5543.	15278.	5765.	2700.
201-	300	1681.	0.	0.	291.	755.	2423.	5615.	3072.	2391.
301-	400	1130.	0.	0.	0.	1901.	2989.	1008.	2855.	1701.
401-	500	0.	0.	0.	0.	0.	1668.	2892.	425.	500.
501-	600	1180.	0.	0.	0.	0.	0.	505.	0.	1131.
601-	700	0.	0.	0.	0.	0.	0.	3050.	0.	0.
701-	800	1585.	0.	0.	780.	0.	0.	0.	0.	0.
801-	900	850.	0.	0.	875.	0.	1100.	840.	0.	850.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	5922.	1583.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		9280.	140.	200.	2325.	7696.	23657.	39281.	17625.	11559.
CUMUL. TOTALS		9280.	9420.	9620.	11945.	19641.	43298.	82579.	100204.	111763.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	61.	89.	275.	69.	8.	9.	0.	1251.	1251.
11-	20	152.	298.	468.	190.	59.	79.	0.	2885.	4136.
21-	30	560.	362.	591.	331.	244.	0.	0.	4128.	8264.
31-	40	847.	1080.	666.	308.	257.	0.	0.	6171.	14435.
41-	50	516.	1561.	636.	669.	483.	49.	572.	7832.	22267.
51-	60	440.	974.	964.	385.	360.	180.	0.	7952.	30219.
61-	70	693.	457.	1314.	125.	566.	61.	0.	6083.	36302.
71-	80	1366.	963.	1681.	1095.	80.	0.	142.	9615.	45917.
81-	90	636.	841.	2411.	90.	85.	0.	0.	6270.	52187.
91-	100	988.	1841.	3040.	870.	0.	100.	0.	11771.	63958.
101-	200	6543.	5561.	13968.	6714.	3567.	360.	530.	71063.	135021.
201-	300	3190.	5597.	5499.	5864.	1842.	2138.	1572.	42030.	177051.
301-	400	2504.	665.	1838.	2121.	1970.	670.	0.	21353.	198404.
401-	500	5195.	845.	2726.	2325.	1883.	0.	0.	18039.	216443.
501-	600	503.	597.	2619.	2372.	1521.	0.	0.	10628.	227071.
601-	700	1981.	1260.	660.	615.	602.	682.	0.	8850.	235921.
701-	800	0.	0.	2958.	751.	0.	0.	0.	6072.	241993.
801-	900	0.	0.	852.	0.	855.	0.	0.	6922.	248915.
901-	1000	988.	0.	930.	0.	0.	0.	0.	1918.	250833.
1001-	2000	0.	0.	0.	6999.	1114.	0.	0.	15618.	266451.
2001-	3000	5171.	0.	0.	0.	0.	2100.	0.	7271.	273722.
3001-	4000	0.	0.	7600.	3217.	0.	0.	0.	10617.	284339.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	284339.
5001-	6000	0.	0.	0.	0.	0.	0.	5068.	5068.	289407.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
COLUMN TOTALS		32364.	22591.	51891.	35010.	15476.	6428.	7884.	289407.	
CUMUL. TOTALS		150127.	172718.	224609.	259619.	275095.	281523.	289407.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	49.	14.	7.	12.	87.	123.	120.	24.	36.
11-	20	92.	0.	0.	0.	56.	157.	252.	44.	25.
21-	30	46.	0.	0.	0.	144.	220.	349.	49.	125.
31-	40	38.	36.	40.	40.	87.	180.	334.	223.	182.
41-	50	0.	0.	50.	0.	180.	459.	582.	96.	142.
51-	60	228.	0.	0.	0.	53.	484.	505.	52.	120.
61-	70	70.	0.	0.	0.	0.	337.	70.	267.	131.
71-	80	80.	0.	0.	0.	0.	608.	375.	227.	151.
81-	90	89.	0.	0.	0.	0.	257.	169.	177.	258.
91-	100	200.	0.	0.	0.	195.	196.	146.	92.	99.
101-	200	624.	0.	0.	0.	1050.	3682.	3208.	2386.	1065.
201-	300	585.	0.	0.	291.	706.	2564.	2739.	1100.	464.
301-	400	350.	0.	0.	0.	1530.	3651.	3269.	1676.	1044.
401-	500	0.	0.	0.	0.	413.	2885.	4711.	465.	929.
501-	600	590.	0.	0.	0.	0.	2776.	4427.	575.	600.
601-	700	0.	0.	0.	0.	0.	0.	655.	0.	0.
701-	800	800.	0.	0.	0.	0.	780.	2265.	1464.	0.
801-	900	850.	0.	0.	0.	0.	0.	890.	1896.	850.
901-	1000	0.	0.	0.	0.	904.	0.	947.	944.	0.
1001-	2000	0.	0.	0.	0.	2312.	13244.	1355.	4048.	4112.
2001-	3000	2155.	0.	0.	0.	0.	0.	4474.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	3100.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	6595.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		6946.	50.	97.	343.	7617.	29332.	42567.	15607.	10333.
CUMUL. TOTALS		6946.	6996.	7093.	7436.	15053.	44385.	86952.	102559.	112892.

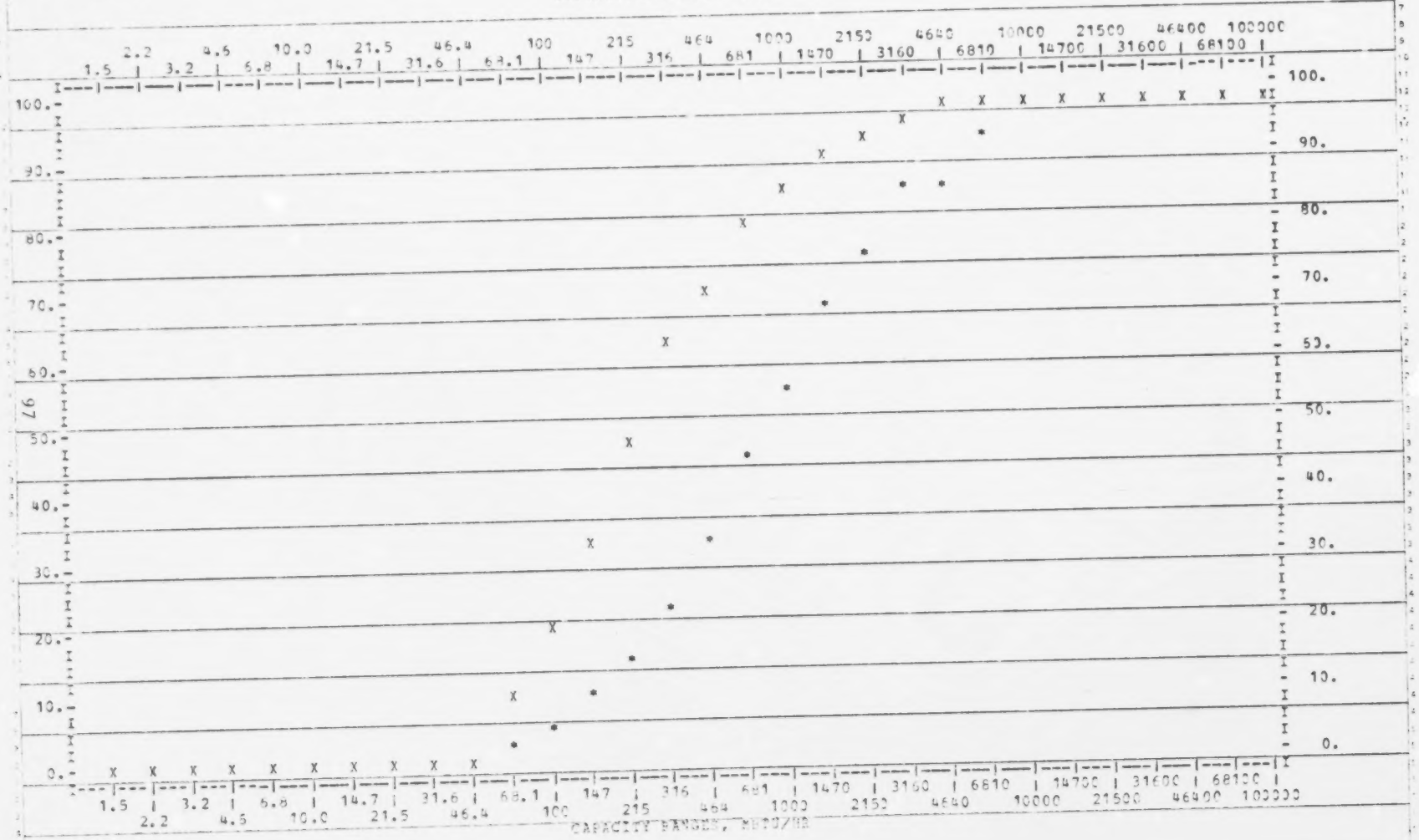
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	53.	24.	155.	48.	8.	1.	0.	713.	713.
11-	20	64.	61.	210.	77.	11.	0.	0.	1049.	1762.
21-	30	78.	179.	262.	151.	79.	0.	0.	1691.	3453.
31-	40	185.	294.	330.	180.	70.	39.	0.	2208.	5661.
41-	50	270.	95.	373.	0.	50.	0.	0.	2285.	7946.
51-	60	220.	345.	342.	222.	0.	0.	0.	2581.	10527.
61-	70	208.	533.	446.	133.	0.	0.	0.	2213.	12740.
71-	80	461.	152.	180.	0.	80.	0.	0.	2294.	15034.
81-	90	81.	428.	435.	90.	254.	0.	88.	2326.	17360.
91-	100	387.	693.	291.	292.	100.	100.	0.	2841.	20201.
101-	200	2131.	3483.	3217.	1974.	924.	330.	468.	24142.	44343.
201-	300	1745.	3231.	5712.	2202.	746.	0.	494.	23679.	68022.
301-	400	822.	2163.	5035.	1769.	1101.	0.	0.	18886.	86908.
401-	500	2281.	436.	6211.	2726.	836.	0.	0.	21895.	108803.
501-	600	2796.	1141.	4550.	600.	582.	0.	0.	18637.	127440.
601-	700	2032.	628.	660.	3263.	0.	0.	0.	7238.	134678.
701-	800	795.	1540.	721.	1474.	0.	713.	0.	10562.	145239.
801-	900	848.	0.	3442.	2632.	0.	832.	0.	12040.	157279.
901-	1000	998.	0.	948.	0.	0.	955.	0.	5696.	162966.
1001-	2000	6323.	6526.	6677.	7682.	1210.	0.	1834.	55323.	218289.
2001-	3000	2810.	2032.	5175.	2372.	5208.	2940.	0.	27166.	245455.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	3100.	248555.
4001-	5000	4222.	0.	0.	0.	4795.	0.	0.	9017.	257572.
5001-	6000	5171.	0.	0.	0.	0.	0.	5068.	10239.	267811.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	6599.	274410.
7001-	8000	0.	0.	7600.	7397.	0.	0.	0.	14997.	289407.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	289407.
COLUMN TOTALS		34789.	23986.	52940.	34884.	16054.	5910.	7952.	289407.	
CUMUL. TOTALS		147681.	171667.	224607.	259491.	275545.	281455.	289407.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

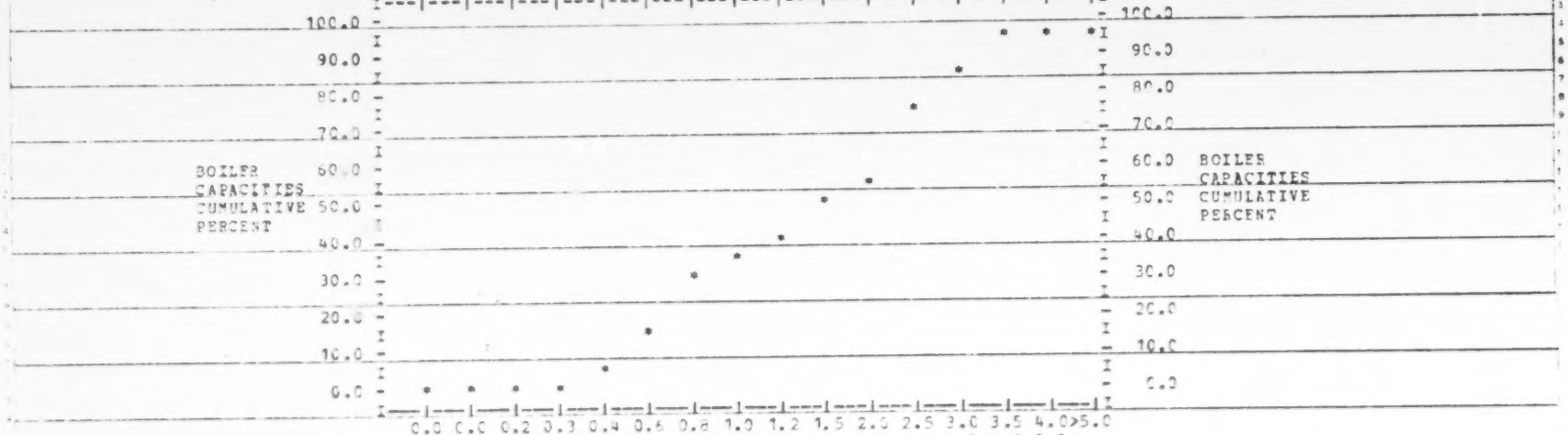


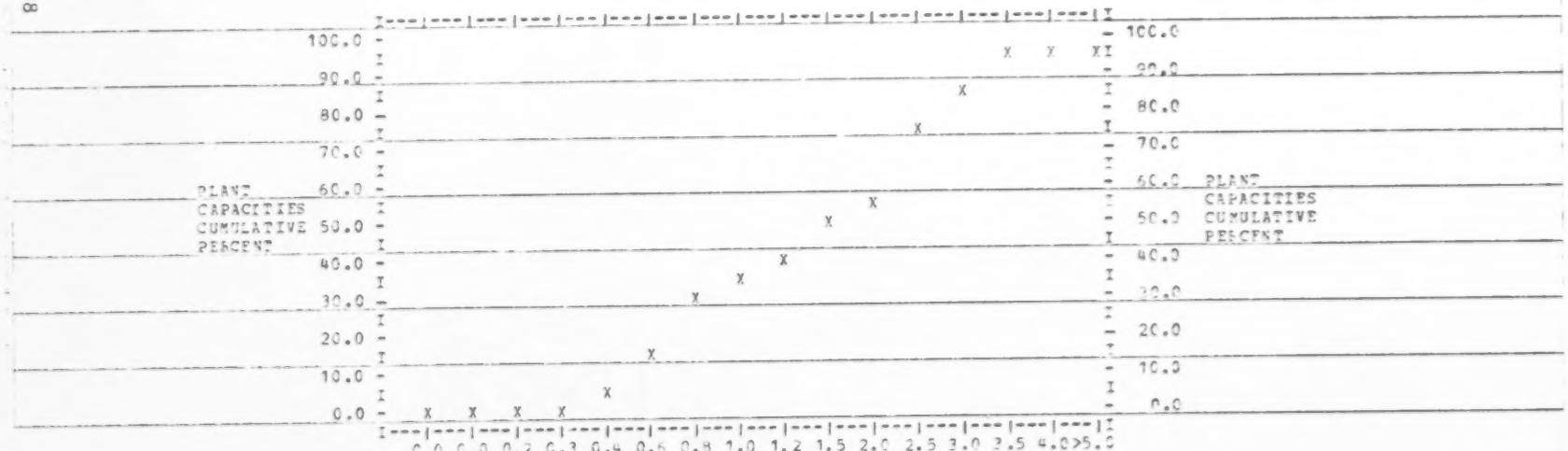
BOILER CAPACITIES (ALL DATA) = 289407.
PLANT CAPACITIES (ALL DATA) = 289407.

BOILER POPULATION DATA - INDUSTRIAL BOILERS

ALL COAL-FIRED BOILERS

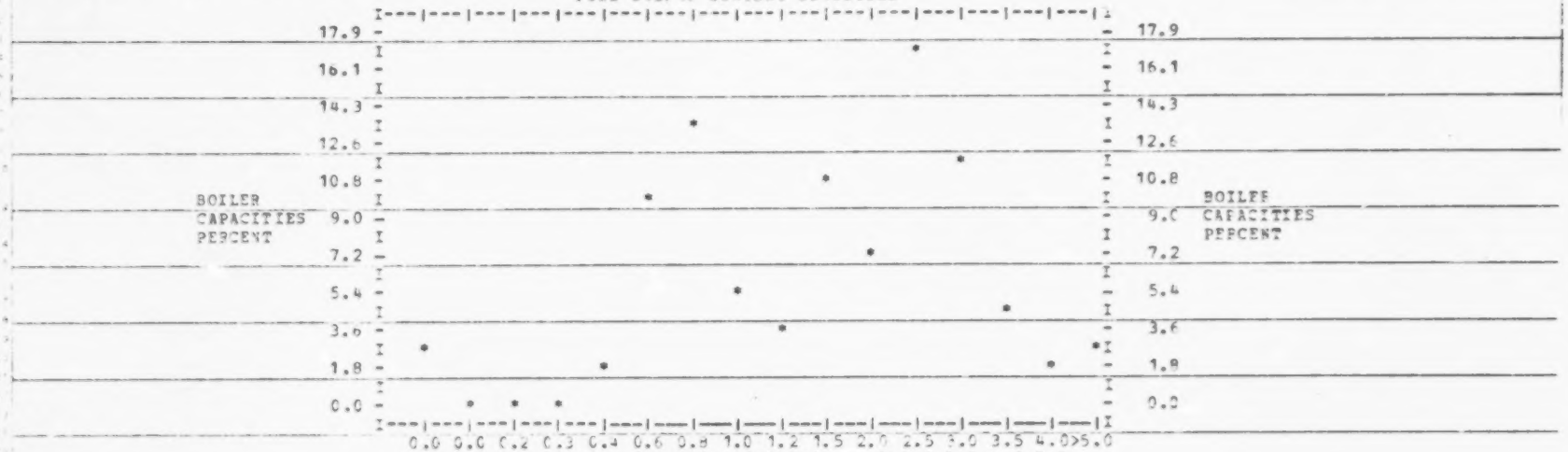
FUEL SULFUR CONTENT

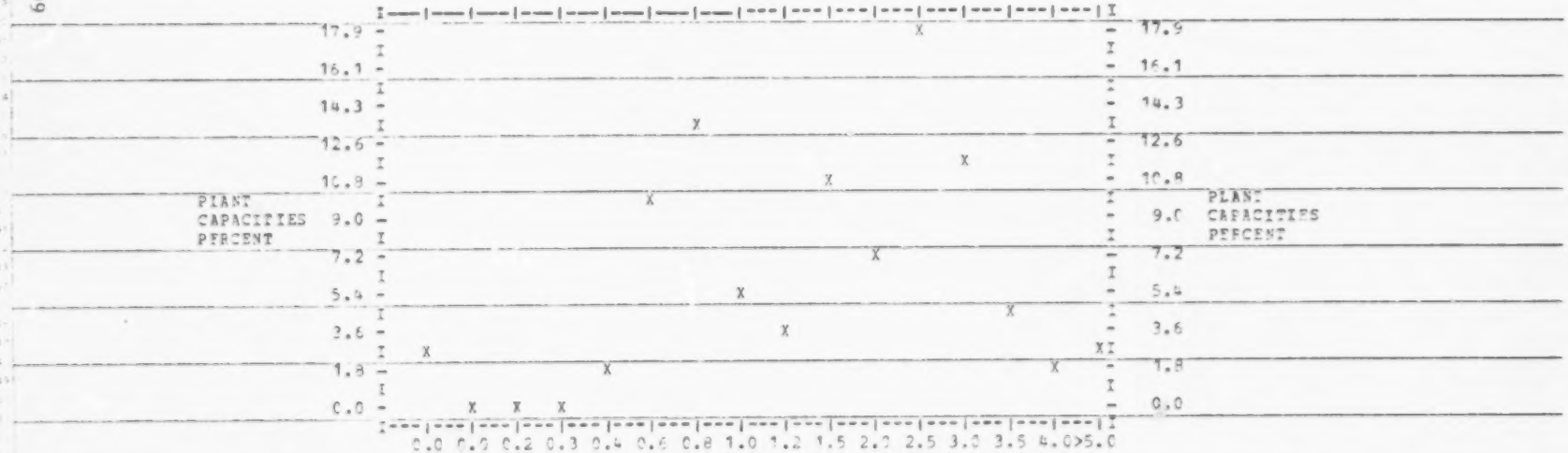




BOILER CAPACITIES (ALL DATA) = 28407.
PLANT CAPACITIES (ALL DATA) = 28407.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 289407.
PLANT CAPACITIES (ALL DATA) = 289407.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.5	>.5 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	118.	4.	11.	42.	2686.	962.	69.	318.
11- 20	0.	3.	15.	0.	213.	754.	965.	638.	144.
21- 30	0.	0.	22.	0.	133.	750.	453.	477.	2576.
31- 40	0.	3.	0.	0.	90.	1352.	2309.	853.	1213.
41- 50	0.	0.	0.	0.	214.	1044.	2237.	2291.	538.
51- 60	0.	0.	0.	85.	323.	986.	1915.	1175.	602.
61- 70	0.	0.	0.	0.	312.	1007.	1226.	2910.	106.
71- 80	0.	0.	0.	0.	348.	1923.	1279.	1078.	115.
81- 90	0.	0.	0.	0.	0.	772.	1329.	156.	0.
91- 100	0.	0.	0.	0.	66.	1727.	1875.	3098.	440.
101- 200	0.	0.	40.	0.	3963.	5689.	21895.	13087.	5186.
201- 300	0.	0.	0.	360.	701.	2331.	10362.	7706.	5898.
301- 400	0.	0.	0.	0.	1442.	1697.	2523.	7910.	4671.
401- 500	0.	0.	0.	0.	0.	685.	3079.	900.	134.
501- 600	0.	0.	0.	0.	0.	0.	1315.	0.	5111.
601- 700	0.	0.	0.	0.	0.	0.	7743.	0.	0.
701- 800	0.	0.	0.	854.	0.	0.	0.	0.	0.
801- 900	0.	0.	0.	989.	0.	3998.	458.	0.	2085.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	5294.	127.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
EQUAL TO OR	0.	124.	96.	2299.	8207.	34698.	62748.	42395.	29204.
GREATER THAN	0.	124.	281.	2580.	10712.	45410.	108158.	150553.	179757.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0.[illegible]	.5	0.	0.	0.	0.	0.	0.	0.	0.
.5	10	13493.	2245.	14106.	2245.	1191.	3705.	0.	33096.	33096.
11-	20	12135.	1972.	8600.	1771.	587.	516.	0.	12395.	45492.
21-	30	1410.	4801.	2215.	2390.	2017.	0.	0.	15564.	61036.
31-	40	2370.	5611.	4066.	2404.	975.	0.	0.	21926.	82963.
41-	50	16711.	7201.	10814.	1885.	2707.	309.	8294.	39153.	122116.
51-	60	15031.	4567.	7971.	2672.	3274.	3227.	0.	28266.	150376.
61-	70	2384.	1706.	4544.	748.	11305.	806.	0.	24487.	174862.
71-	80	3502.	1981.	9678.	9275.	483.	0.	1800.	31929.	210792.
81-	90	5033.	3667.	8981.	932.	72.	0.	0.	20320.	231072.
91-	100	3283.	6355.	17813.	3551.	0.	51.	0.	32252.	263324.
101-	200	70747.	19403.	70623.	34806.	15313.	3165.	2536.	266864.	530188.
201-	300	12036.	13300.	27238.	25811.	13293.	12779.	10652.	107357.	637544.
301-	400	3409.	1453.	4793.	12447.	22454.	12110.	0.	74852.	712396.
401-	500	4162.	202.	39391.	15734.	19223.	0.	0.	84459.	796855.
501-	600	173.	851.	12186.	26796.	15565.	0.	0.	62010.	858871.
601-	700	38492.	857.	2213.	5740.	5013.	9885.	0.	69916.	928345.
701-	800	0.	0.	14772.	7528.	0.	0.	0.	23159.	991541.
801-	900	0.	0.	13.	0.	5012.	0.	0.	12557.	1004097.
901-	1000	2146.	0.	1760.	0.	0.	0.	0.	1984.	1006082.
1001-	2000	0.	0.	0.	70256.	8192.	0.	0.	83658.	1089739.
2001-	3000	24324.	0.	0.	0.	0.	1720.	0.	26044.	1115782.
3001-	4000	0.	0.	1938.	30520.	0.	0.	0.	32458.	1148240.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	1148240.
5001-	6000	0.	0.	0.	0.	0.	0.	75713.	75713.	1223953.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	1223953.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	1223953.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	1223953.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	1223953.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	1223953.
COLUMN TOTALS		177874.	80166.	257924.	257653.	125701.	47804.	98995.	1223953.	
CUMUL. TOTALS		355741.	435877.	693801.	951454.	1077155.	1124959.	1223953.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BOW BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	117.	0.	0.	14.	2234.	306.	4.	20.
1-	10	0.	1.	4.	11.	73.	257.	304.	42.	67.
11-	20	0.	0.	0.	0.	62.	312.	227.	38.	58.
21-	30	0.	0.	0.	0.	84.	343.	399.	57.	539.
31-	40	0.	3.	15.	0.	8.	242.	462.	283.	547.
41-	50	0.	0.	22.	0.	473.	665.	656.	311.	271.
51-	60	0.	0.	0.	0.	142.	349.	1016.	23.	137.
61-	70	0.	0.	0.	0.	0.	338.	40.	730.	173.
71-	80	0.	0.	0.	0.	0.	748.	502.	1022.	12.
81-	90	0.	0.	0.	0.	0.	341.	987.	56.	939.
91-	100	0.	0.	0.	0.	204.	297.	561.	166.	146.
101-	200	0.	0.	0.	0.	1463.	4367.	4874.	6580.	3437.
201-	300	0.	0.	0.	360.	714.	2340.	5690.	2376.	674.
301-	400	0.	0.	0.	0.	1127.	0.	3551.	2210.	2957.
401-	500	0.	0.	0.	0.	455.	2942.	7833.	1499.	1120.
501-	600	0.	0.	0.	0.	0.	3413.	8347.	951.	2262.
601-	700	0.	0.	0.	0.	0.	0.	590.	0.	0.
701-	800	0.	0.	0.	0.	0.	868.	5506.	3671.	0.
801-	900	0.	0.	0.	0.	0.	0.	570.	4105.	2086.
901-	1000	0.	0.	0.	0.	1177.	0.	5837.	1284.	0.
1001-	2000	0.	0.	0.	0.	1463.	11944.	2409.	11257.	10438.
2001-	3000	0.	0.	0.	0.	0.	0.	1807.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	6644.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	14673.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	121.	41.	371.	7438.	31741.	69204.	36715.	25907.
CUMUL. TOTALS		0.	121.	163.	533.	7972.	39712.	109007.	145722.	171628.

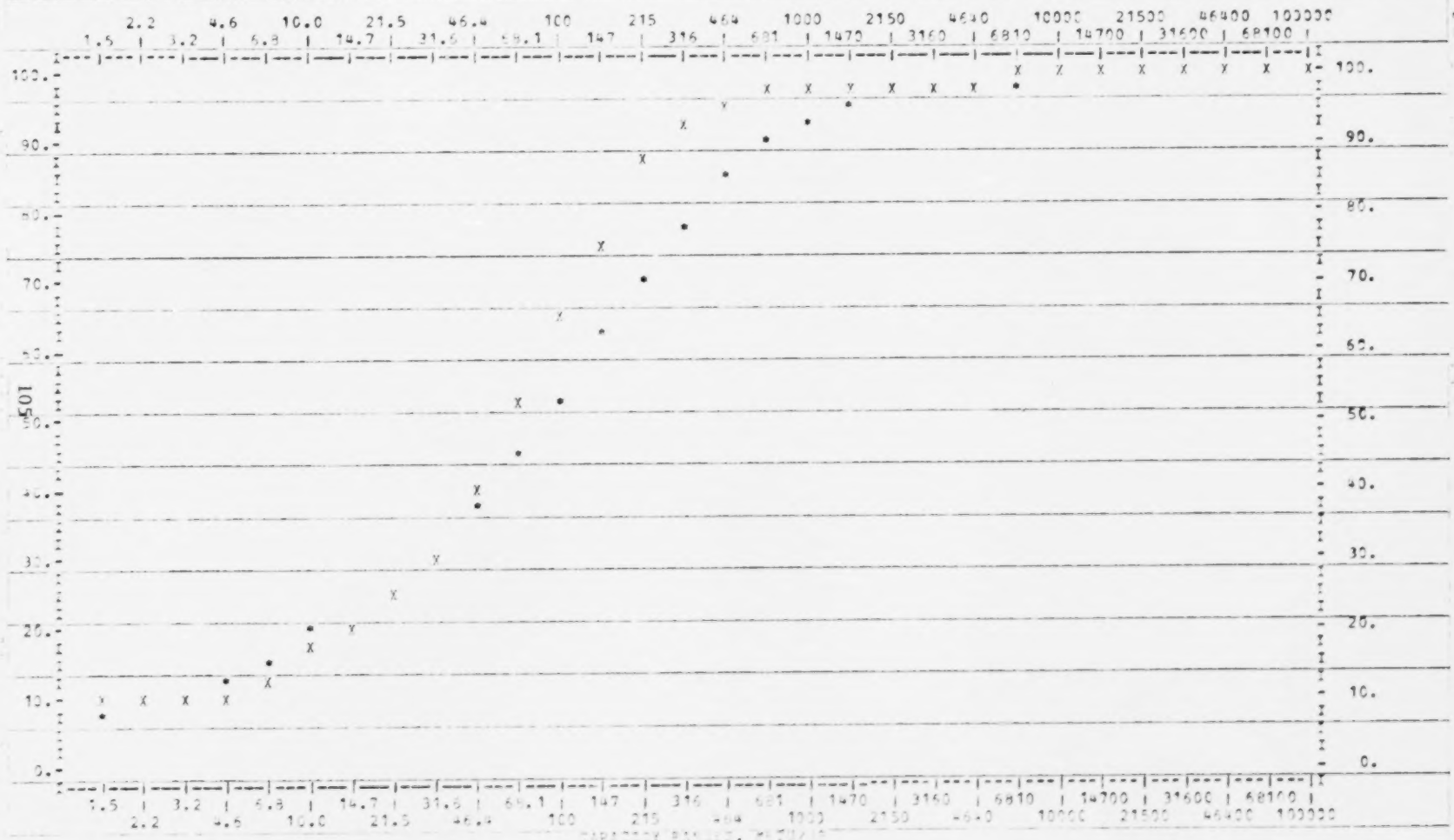
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	1054.	194.	16272.	1953.	85.	2331.	0.	25183.	25183.
1-	10	263.	603.	1240.	227.	1056.	447.	0.	4814.	29997.
11-	20	337.	887.	1040.	457.	140.	0.	0.	3643.	33640.
21-	30	666.	2180.	1211.	1609.	642.	0.	0.	7890.	41531.
31-	40	843.	1079.	1898.	1690.	496.	291.	0.	7819.	49350.
41-	50	942.	657.	8820.	0.	306.	0.	0.	13161.	62511.
51-	60	1530.	1569.	1465.	1814.	0.	0.	0.	8106.	70617.
61-	70	574.	2404.	2884.	677.	0.	0.	0.	8534.	79151.
71-	80	1552.	792.	498.	0.	903.	0.	0.	6085.	85236.
81-	90	331.	1272.	934.	144.	1029.	0.	901.	7004.	92240.
91-	100	1025.	2672.	1543.	809.	360.	51.	0.	7986.	100226.
101-	200	6163.	14346.	21140.	7084.	9887.	2400.	4067.	80828.	181054.
201-	300	10268.	13322.	27446.	11783.	2226.	0.	5813.	83009.	264063.
301-	400	1632.	7706.	22481.	5538.	5753.	0.	0.	53404.	317467.
401-	500	3401.	1226.	24279.	15365.	7174.	0.	0.	64852.	382319.
501-	600	61043.	1829.	28318.	7155.	1127.	0.	0.	111845.	493764.
601-	700	41402.	2341.	2213.	23767.	0.	0.	0.	70313.	564076.
701-	800	2389.	6785.	400.	6503.	0.	5634.	0.	31915.	595992.
801-	900	529.	0.	10150.	21968.	0.	1965.	0.	41250.	637241.
901-	1000	3011.	0.	4500.	0.	0.	15701.	0.	27231.	664472.
1001-	2000	10106.	20200.	64714.	36249.	9092.	0.	12420.	152786.	817258.
2001-	3000	17587.	6400.	19775.	28799.	32619.	8600.	0.	113780.	931038.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	6844.	975566.
4001-	5000	1931.	0.	0.	0.	46740.	0.	0.	48671.	1023737.
5001-	6000	24324.	0.	0.	0.	0.	0.	75713.	100037.	1123774.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	14473.	1138247.
7001-	8000	0.	0.	1938.	83569.	0.	0.	0.	85508.	1223754.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	1223754.
COLUMN TOTALS		192998.	88924.	262563.	255652.	115173.	38101.	99916.	1223954.	
CUMUL. TOTALS		364626.	453550.	716114.	971765.	1086938.	1125038.	1223953.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



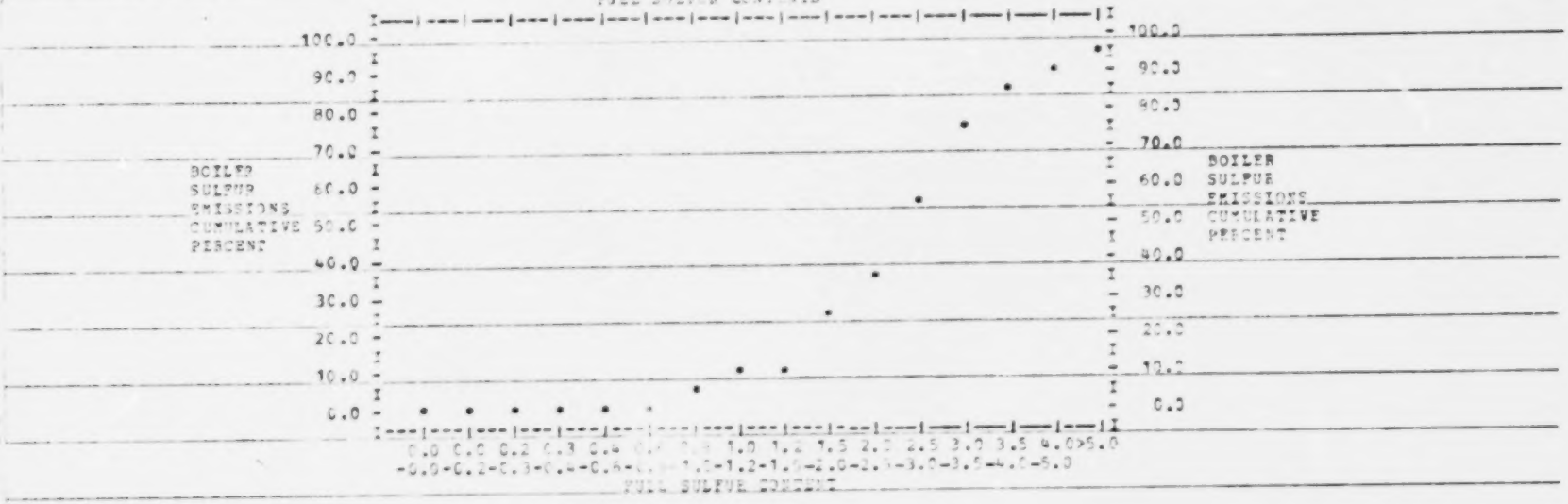
NUMBER OF BOILERS (ALL DATA) = 2017
NUMBER OF PLANTS (ALL DATA) = 1132

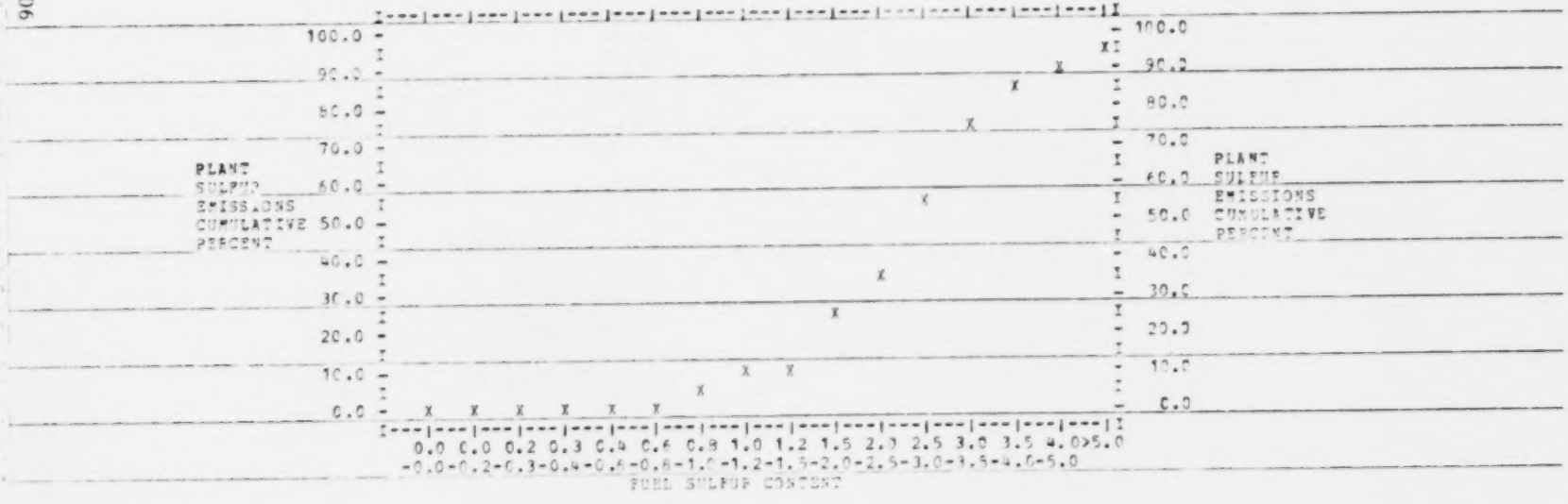
IC5-5

BOILER POPULATION DATA - INDUSTRIAL BOILERS

ALL COAL-FIRED BOILERS

FUEL SULFUR CONTENTS

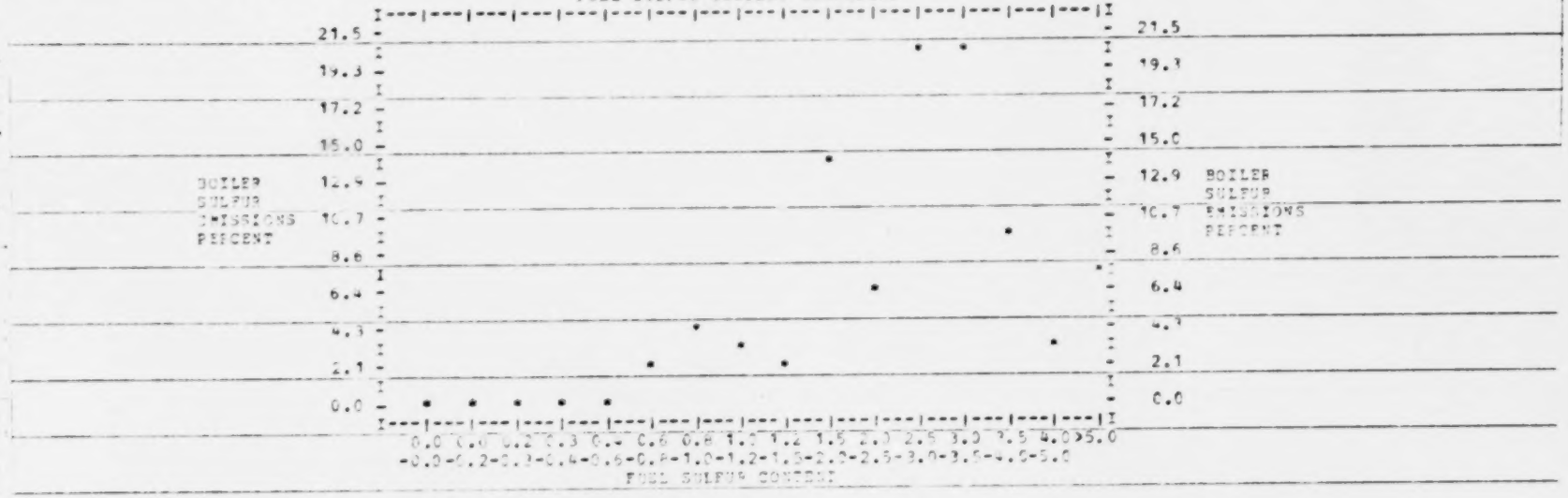


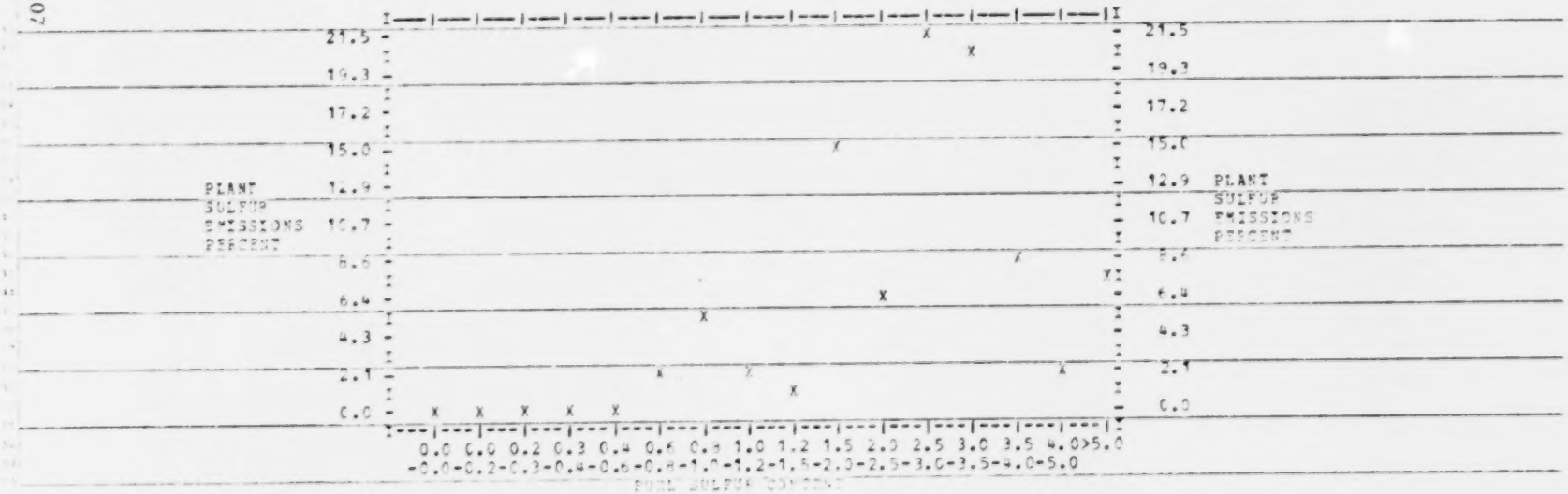


NUMBER OF BOILERS (ALL DATA) = 4519

NUMBER OF PLANTS (ALL DATA) = 1132

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 2919
NUMBER OF PLANTS (ALL DATA) = 1132

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, BBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	1245.	1488.	34.	78.	395.	8327.	2756.	162.	531.
11-	20	114.	40.	168.	0.	933.	2703.	2249.	1313.	259.
21-	30	416.	0.	192.	0.	630.	2644.	1284.	1423.	6231.
31-	40	0.	147.	0.	0.	274.	4984.	7612.	1403.	2290.
41-	50	0.	0.	0.	0.	857.	3479.	5966.	4450.	1075.
51-	60	8.	0.	0.	553.	1442.	3403.	5197.	2598.	1131.
61-	70	0.	0.	0.	0.	1560.	3754.	3525.	6753.	228.
71-	80	0.	0.	0.	0.	1900.	5122.	3576.	2497.	246.
81-	90	130.	0.	0.	0.	0.	2820.	3636.	334.	0.
91-	100	319.	0.	0.	0.	121.	6135.	5136.	6952.	775.
101-	200	655.	0.	310.	0.	17720.	19555.	60788.	29362.	10678.
201-	300	0.	0.	0.	1260.	2465.	8672.	27185.	17509.	11385.
301-	400	2160.	0.	0.	0.	6085.	5380.	7528.	17341.	8822.
401-	500	0.	0.	0.	0.	0.	2415.	10131.	2204.	223.
501-	600	0.	0.	0.	0.	0.	0.	3155.	0.	9819.
601-	700	0.	0.	0.	0.	0.	0.	21750.	0.	0.
701-	800	0.	0.	0.	6342.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	8034.	0.	16464.	1279.	0.	4275.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	20407.	378.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		5048.	1681.	703.	16867.	34319.	118300.	173282.	94301.	56970.
RUNNG. TOTALS		5048.	6729.	7433.	24300.	58619.	177004.	350241.	444592.	501562.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	1920.	2443.	16552.	1517.	798.	2091.	0.	40937.	40937.
11- 20	1601.	2374.	3162.	1208.	364.	316.	0.	16939.	57876.
21- 30	2145.	2623.	1324.	1844.	1177.	0.	0.	21647.	79523.
31- 40	3960.	5633.	3367.	1755.	604.	0.	0.	31959.	111482.
41- 50	2235.	7649.	8960.	1330.	1786.	198.	3401.	41406.	152888.
51- 60	2032.	4749.	6812.	1892.	2068.	1467.	0.	33358.	186246.
61- 70	3310.	1864.	5529.	613.	8152.	185.	0.	35474.	221720.
71- 80	4579.	2009.	8413.	6722.	547.	0.	600.	37323.	259043.
81- 90	8816.	3960.	6856.	786.	48.	0.	0.	26991.	286034.
91- 100	4395.	6777.	9697.	2486.	0.	26.	0.	42820.	328853.
101- 200	107498.	21795.	57032.	24429.	9890.	1533.	959.	362208.	691062.
201- 300	16459.	20167.	22503.	18780.	7891.	7102.	3784.	165183.	856245.
301- 400	4656.	1242.	3699.	9776.	14421.	5530.	0.	67200.	943445.
401- 500	7048.	166.	35036.	10758.	12544.	0.	0.	80545.	1023990.
501- 600	228.	888.	10007.	17864.	10279.	0.	0.	52242.	1076231.
601- 700	52101.	857.	2074.	4349.	3325.	5694.	0.	90149.	1166380.
701- 800	0.	0.	13259.	5576.	0.	0.	0.	25777.	1192157.
801- 900	0.	0.	11.	0.	3324.	0.	0.	33366.	1225543.
901- 1000	299.	0.	1403.	0.	0.	0.	0.	1701.	1227244.
1001- 2000	0.	0.	0.	47023.	5016.	0.	0.	72827.	1300070.
2001- 3000	30725.	0.	0.	0.	0.	1040.	0.	31765.	1331834.
3001- 4000	0.	0.	1615.	19184.	0.	0.	0.	20799.	1352633.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	1352633.
5001- 6000	0.	0.	0.	0.	0.	0.	29691.	29691.	1382324.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
COLUMN TOTALS	253809.	85436.	217811.	177855.	82238.	25182.	38436.	1382324.	
CUMUL. TOTALS	755371.	840806.	1058617.	1236471.	1318708.	1343889.	1382325.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	1031.	1473.	0.	0.	54.	7248.	901.	8.	34.
1- 10	214.	16.	34.	77.	319.	952.	864.	92.	120.
11- 20	114.	0.	0.	0.	280.	1114.	742.	83.	103.
21- 30	264.	0.	0.	0.	409.	1200.	1003.	13[illegible].	908.
31- 40	0.	147.	168.	1.	36.	972.	1360.	652.	1031.
41- 50	0.	0.	192.	0.	1516.	2304.	2070.	671.	462.
51- 60	162.	0.	0.	0.	683.	1293.	2645.	52.	252.
61- 70	0.	0.	0.	0.	0.	1144.	140.	1498.	314.
71- 80	0.	0.	0.	0.	0.	2616.	1436.	1661.	25.
81- 90	0.	0.	0.	0.	0.	1214.	1774.	125.	1754.
91- 100	319.	0.	0.	0.	785.	980.	1523.	416.	312.
101- 200	650.	0.	0.	0.	5769.	15398.	13166.	14925.	7556.
201- 300	0.	0.	0.	1260.	2436.	8843.	14884.	5644.	1144.
301- 400	2160.	0.	0.	0.	4191.	183.	10105.	5213.	5267.
401- 500	0.	0.	0.	0.	1365.	9003.	20292.	3182.	2127.
501- 600	0.	0.	0.	0.	0.	12221.	23850.	1902.	4350.
601- 700	0.	0.	0.	0.	0.	0.	1534.	0.	0.
701- 800	0.	0.	0.	0.	0.	3008.	14625.	8493.	0.
801- 900	0.	0.	0.	0.	0.	0.	1680.	8966.	4275.
901- 1000	0.	0.	0.	0.	5885.	0.	4529.	2737.	0.
1001- 2000	0.	0.	0.	0.	7070.	46565.	6960.	25589.	21306.
2001- 3000	0.	0.	0.	0.	0.	0.	5171.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	16178.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	41856.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	4914.	1635.	393.	1338.	30818.	116289.	189290.	82031.	51338.
CUMUL. TOTALS	4914.	6549.	6943.	8281.	39098.	155387.	344678.	426708.	478047.

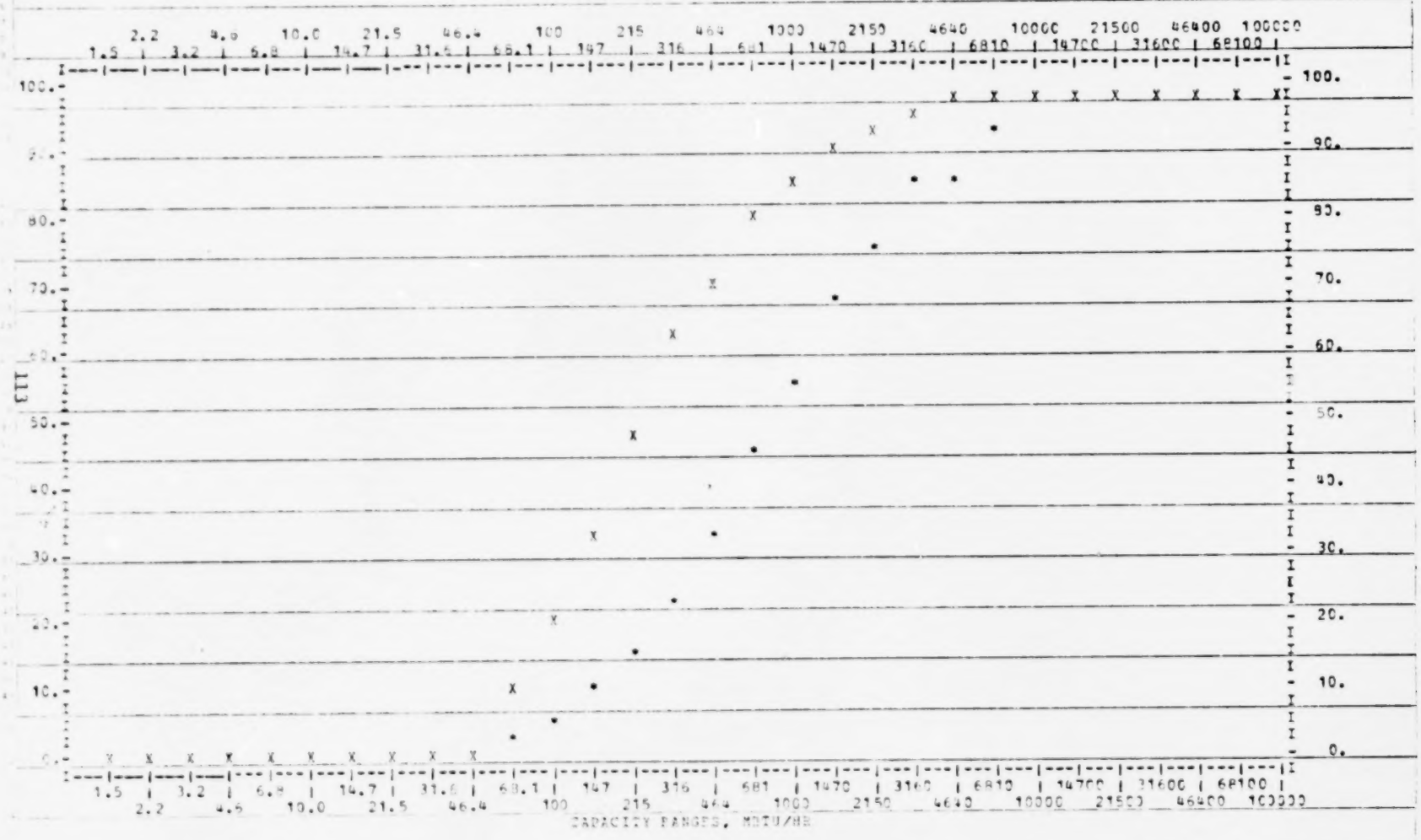
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	1521.	201.	15044.	1284.	53.	1634.	0.	30506.	30506.
1-	10	336.	617.	977.	160.	745.	388.	0.	5911.	36417.
11-	20	461.	1021.	931.	314.	96.	0.	0.	5259.	41677.
21-	30	881.	2519.	1041.	1288.	415.	0.	0.	10084.	51760.
31-	40	1165.	1084.	1704.	1133.	324.	172.	0.	9946.	61706.
41-	50	1262.	808.	7626.	0.	187.	0.	0.	17095.	78801.
51-	60	2163.	1761.	1256.	1310.	0.	0.	0.	11575.	90376.
61-	70	776.	2889.	2437.	720.	0.	0.	0.	9919.	100295.
71-	80	1955.	792.	455.	0.	547.	0.	0.	9487.	109782.
81-	90	485.	1363.	824.	122.	798.	0.	317.	9580.	119363.
91-	100	1336.	2581.	1458.	653.	207.	26.	0.	10657.	129020.
101-	200	26140.	15104.	17209.	5345.	3244.	1284.	1709.	127525.	256545.
201-	300	15433.	14442.	23641.	8567.	1481.	0.	2284.	100059.	356604.
301-	400	2783.	7845.	18819.	3710.	3852.	0.	0.	63926.	420530.
401-	500	4337.	1176.	20737.	10234.	4020.	0.	0.	77073.	497603.
501-	600	76730.	1951.	20440.	5516.	687.	0.	0.	147707.	645309.
601-	700	55555.	2341.	2674.	17605.	0.	0.	0.	79110.	724419.
701-	800	3959.	8216.	500.	5006.	0.	2754.	0.	46583.	771002.
801-	900	657.	0.	8020.	15500.	0.	954.	0.	40057.	811058.
901-	1000	5163.	0.	3150.	0.	0.	7798.	0.	29262.	840320.
1001-	2000	13650.	19040.	55408.	27570.	5683.	0.	4415.	233735.	1074055.
2001-	3000	27768.	7851.	17182.	17464.	20337.	5200.	0.	101973.	1176028.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	16178.	1192206.
4001-	5000	2849.	0.	0.	0.	35965.	0.	0.	33704.	1225909.
5001-	6000	30725.	0.	0.	0.	0.	0.	29691.	60416.	1286325.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	41856.	1328180.
7001-	8000	0.	0.	1615.	52529.	0.	0.	0.	54144.	1382324.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	1382324.
COLUMN TOTALS		278211.	93002.	222879.	176429.	74525.	20220.	38416.	1382324.	
CUMUL. TOTALS		756258.	849860.	1072738.	1249166.	1323691.	1343910.	1382325.		

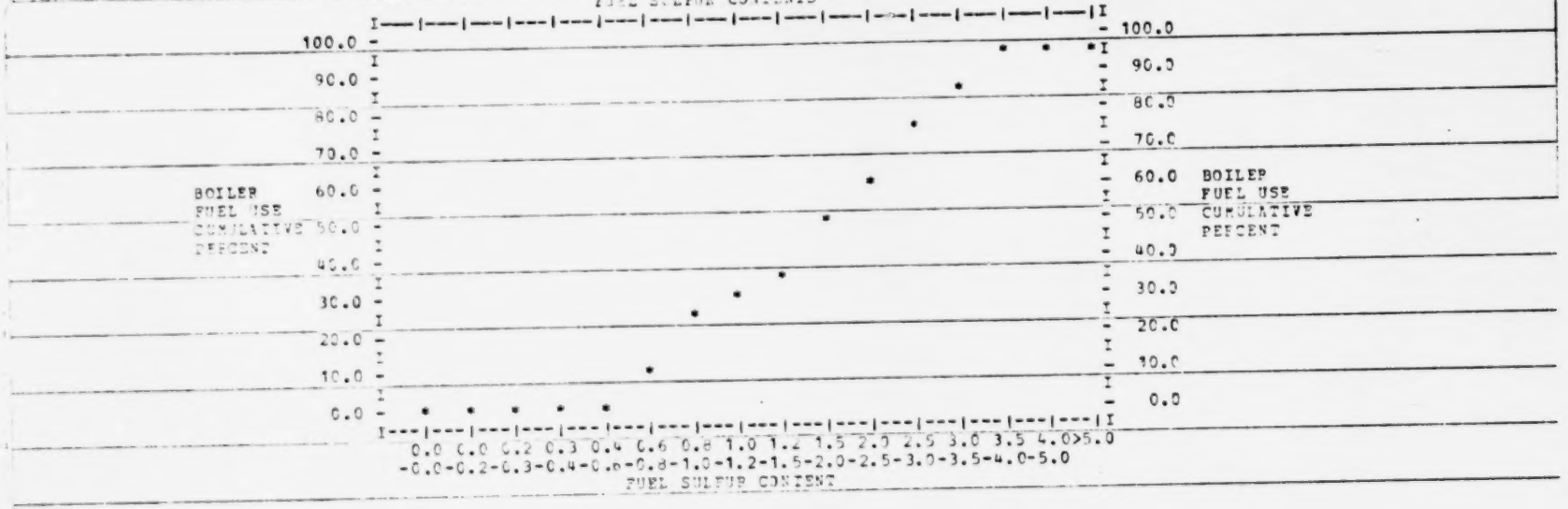
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

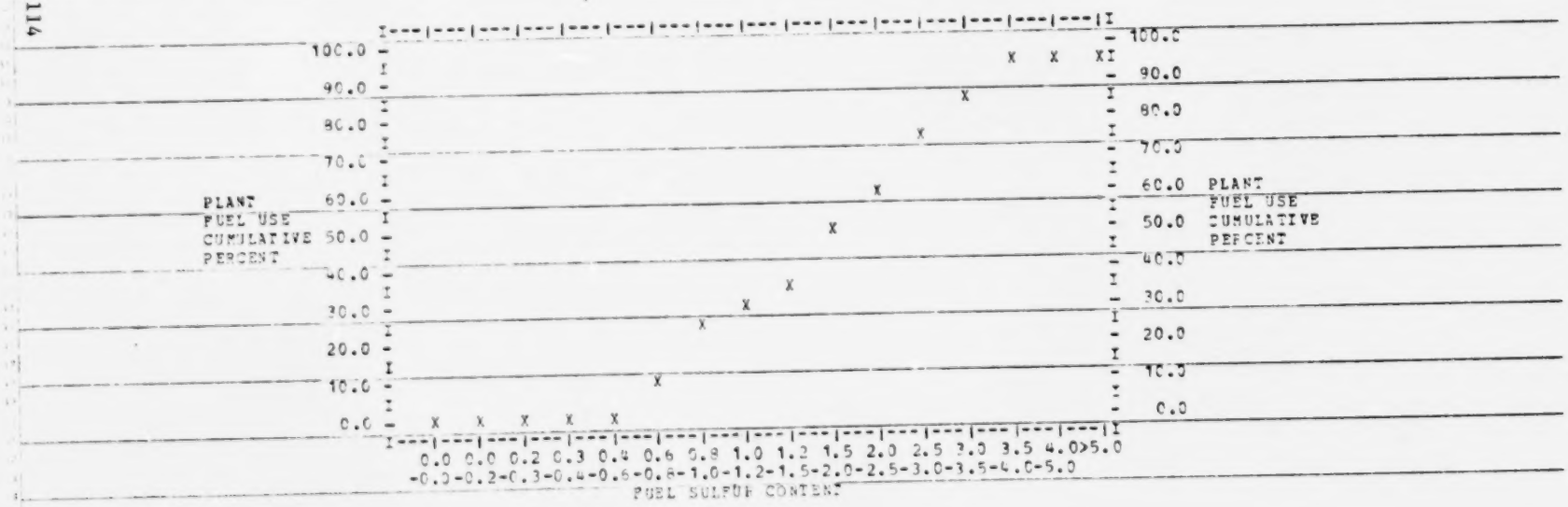
X--INDIVIDUAL BOILERS
•--PLANTS



BOILER CAPACITIES (ALL DATA) = 2844407.
PLANT CAPACITIES (ALL DATA) = 2844407.

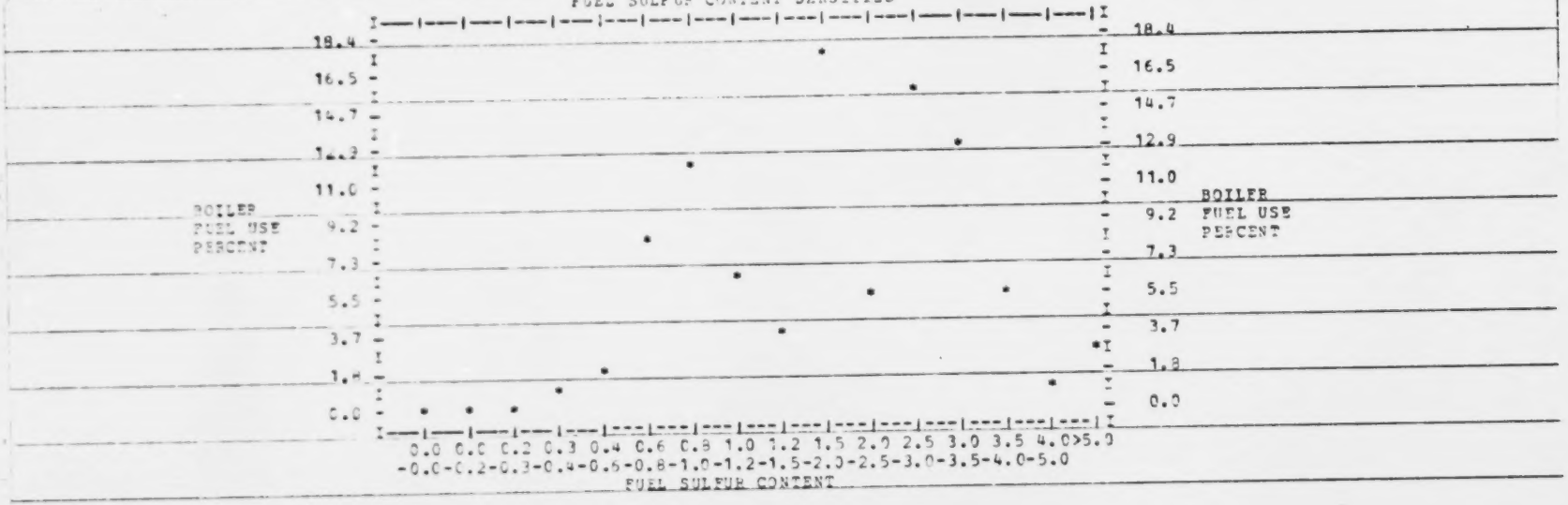
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENTS

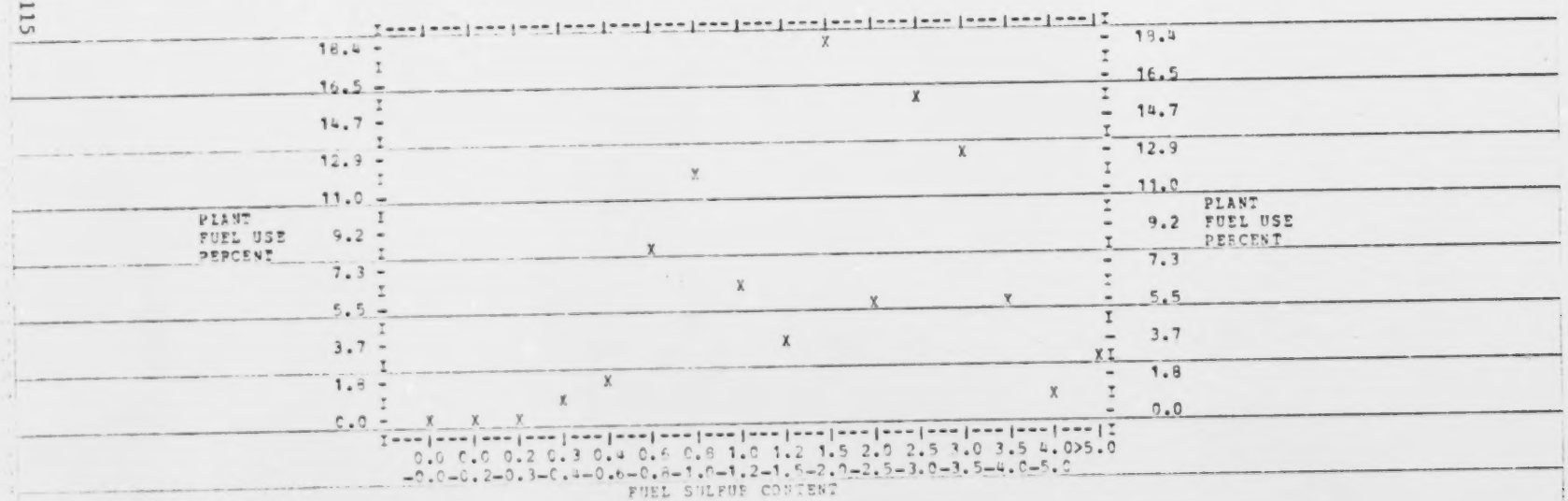




BOILER CAPACITIES (ALL DATA) = 289407.
PLANT CAPACITIES (ALL DATA) = 289407.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 289407.
PLANT CAPACITIES (ALL DATA) = 289407.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR		STACK HEIGHTS IN FEET														
		EQUAL ZERO	1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
EQUAL	0	76	1	4	13	6	10	4	5	6	5	5	8	4	0	0
1-	10	32	3	23	32	40	25	6	9	8	5	1	2	0	0	0
11-	20	19	0	6	10	18	12	1	14	6	0	4	1	0	0	0
21-	30	15	1	3	5	15	13	4	9	9	4	2	4	0	0	0
31-	40	17	0	8	9	6	4	3	6	18	6	3	4	1	0	0
41-	50	9	1	2	5	15	9	4	4	10	9	1	2	0	1	0
51-	60	7	0	3	5	9	3	2	4	10	9	8	1	0	0	0
61-	70	10	0	2	3	5	4	2	6	6	11	1	2	0	0	0
71-	80	3	0	3	5	15	6	5	4	2	7	2	4	0	0	0
81-	90	7	0	2	4	9	4	1	4	4	2	1	3	0	0	0
91-	100	6	0	0	5	9	8	1	1	4	4	8	3	1	0	0
101-	200	18	0	3	17	42	33	22	20	26	23	11	28	8	0	0
201-	300	2	1	0	5	9	21	13	11	17	8	11	19	5	3	0
301-	400	2	0	0	2	11	4	7	7	11	8	4	8	3	1	2
401-	500	4	0	0	1	2	8	6	1	4	7	2	13	1	1	0
501-	600	3	0	0	0	0	2	1	0	6	4	5	7	1	1	0
601-	700	1	0	0	0	0	1	2	1	1	1	3	4	1	0	0
701-	800	2	0	0	1	1	2	0	1	0	1	2	2	0	1	0
801-	900	0	0	0	0	0	0	0	4	5	3	0	0	1	0	0
901-	1000	0	0	0	1	1	1	0	0	1	0	2	2	0	0	0
1001-	2000	2	0	0	0	0	0	4	4	3	5	4	5	1	2	0
2001-	3000	0	0	0	0	0	0	0	0	2	1	0	2	0	0	1
3001-	4000	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5001-	6000	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
6001-	7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		235	7	59	123	213	172	91	115	159	123	80	123	28	10	4
CUMUL. TOTALS		0	7	66	189	402	574	665	780	939	1062	1142	1265	1293	1303	1307

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET 431-450	451-500	501-550	551-600	601-650	651-700	701-750	751-800	801-850	851-900	901-950	951-1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	147	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	188	188
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	91	279
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	84	363
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	85	448
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	72	520
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	61	581
61- 70	0	0	1	0	0	0	0	0	0	0	0	0	0	53	634
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	56	690
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	41	731
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	49	780
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	249	1029
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	125	1154
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	70	1224
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	50	1274
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1304
601- 700	0	1	0	0	0	0	0	0	0	0	0	0	0	16	1320
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1333
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1346
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1354
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1386
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1392
3001- 4000	0	1	0	0	0	0	0	0	0	0	0	0	0	4	1396
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1397
5001- 6000	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1399
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1399
COLUMN TOTALS	0	2	1	0	0	0	0	0	1	0	0	0	0	1546	1399
CUMUL. TOTALS	1307	1309	1310	1310	1310	1310	1310	1310	1311	1311	1311	1311	1311		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL COAL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MLB°S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
TOTAL	0	4.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	2.33	1.48	1.00	1.50	1.13	1.44	1.31	1.00	1.00
11-	20	2.00	1.88	2.60	1.90	1.20	1.67	1.25	1.00	1.33
21-	30	0.0	1.86	2.00	2.00	1.50	1.00	3.00	1.50	1.00
31-	40	1.00	1.85	2.00	2.00	2.60	1.60	2.00	3.00	2.00
41-	50	0.0	1.75	2.25	2.00	2.17	1.86	1.67	4.67	1.00
51-	60	1.00	3.20	2.00	2.00	1.60	2.14	1.50	2.00	1.00
61-	70	3.00	2.50	2.50	2.29	2.25	2.00	1.33	3.00	0.0
71-	80	2.00	2.00	1.50	2.00	2.00	2.33	1.00	1.00	1.33
81-	90	2.00	3.33	2.50	2.50	3.00	2.67	2.00	2.33	1.00
91-	100	2.00	1.00	1.50	1.71	3.00	1.00	1.25	2.00	3.00
101-	200	2.67	2.83	1.77	2.80	3.30	2.46	2.58	3.07	3.54
201-	300	3.33	2.00	2.86	3.24	3.18	3.63	2.40	3.67	2.50
301-	400	0.0	3.50	3.66	3.45	2.73	3.33	4.20	3.00	1.00
401-	500	0.0	4.80	3.00	4.20	4.42	4.75	3.00	3.50	4.70
501-	600	1.00	1.00	3.40	4.00	5.00	5.50	3.0	4.00	3.67
601-	700	0.0	0.0	0.0	6.00	3.50	5.00	5.00	0.0	0.0
701-	800	1.00	2.50	0.0	4.50	0.0	3.00	4.67	4.00	8.00
801-	900	1.00	6.33	4.00	5.00	4.33	13.00	4.50	0.0	0.0
901-	1000	0.0	0.0	0.0	0.0	6.00	0.0	6.00	0.0	10.00
1001-	2000	0.0	4.33	8.00	8.63	2.60	6.40	8.67	6.50	6.75
2001-	3000	5.00	5.00	6.80	4.00	2.0	11.00	0.0	6.50	0.0
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	21.00	0.0	0.0
4001-	5000	0.0	30.00	0.0	0.0	0.0	0.0	0.0	0.0	9.00
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.00
7001-	8000	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		3.69	2.72	4.27	3.02	2.94	2.85	2.86	2.97	3.49
CUMUL. TOTALS		0.0	2.74	2.82	2.72	2.77	2.78	2.79	2.81	2.86

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL COAL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.0	0.0	4.44	0.0	1.75	3.01	0.0	0.0
1- 10	1.11	2.50	1.35	0.0	1.62	1.38	1.35	1.38
11- 20	0.0	1.86	1.74	0.0	1.50	1.71	1.48	1.49
21- 30	1.67	0.0	1.81	0.0	2.00	1.85	1.56	1.57
31- 40	1.67	2.20	1.94	0.0	2.86	2.05	1.63	1.66
41- 50	4.00	1.00	2.13	0.0	2.73	2.16	1.69	1.72
51- 60	1.00	4.00	2.13	0.0	3.30	2.26	1.74	1.78
61- 70	1.00	1.00	2.10	0.0	3.25	2.24	1.77	1.81
71- 80	3.50	1.00	1.82	0.0	4.00	1.97	1.77	1.82
81- 90	1.00	0.0	2.48	0.0	2.00	2.44	1.81	1.85
91- 100	1.00	1.00	1.96	0.0	2.00	1.97	1.82	1.86
101- 200	2.43	2.30	2.75	0.0	3.16	2.78	2.05	2.07
201- 300	2.71	3.00	3.02	0.0	4.29	3.11	2.18	2.20
301- 400	1.00	4.00	3.30	0.0	0.0	3.32	2.25	2.27
401- 500	4.00	4.00	4.21	0.0	0.0	4.21	2.37	2.37
501- 600	3.60	0.0	3.75	0.0	7.00	4.30	2.42	2.43
601- 700	4.67	0.0	4.80	0.0	2.00	4.55	2.45	2.46
701- 800	0.0	6.00	4.08	0.0	4.00	4.07	2.47	2.48
801- 900	0.0	0.0	5.33	0.0	7.00	5.64	2.51	2.53
901- 1000	0.0	6.00	6.33	0.0	0.0	6.33	2.54	2.55
1001- 2000	6.00	3.00	6.29	0.0	9.00	6.42	2.68	2.70
2001- 3000	4.00	0.0	5.60	0.0	3.00	5.64	2.73	2.73
3001- 4000	0.0	0.0	21.00	0.0	0.0	21.00	2.75	2.75
4001- 5000	0.0	0.0	19.50	0.0	0.0	19.50	2.78	2.78
5001- 6000	0.0	0.0	1.50	0.0	0.0	1.50	2.78	2.78
6001- 7000	0.0	0.0	29.00	0.0	0.0	29.00	2.81	2.80
7001- 8000	6.00	0.0	6.00	0.0	0.0	6.00	2.81	2.81
8001- 9000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
9001- 10000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	2.81	2.81
COLUMN TOTALS	2.66	2.50	2.89	0.0	2.50	2.47		
CUMUL. TOTALS	2.84	2.83	2.83	2.83	2.78			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	619	0	0	0	0	0	0	0	0
1-	10	123	111	194	154	91	73	61	25	43
11-	20	39	68	84	110	69	36	31	29	27
21-	30	34	36	53	56	36	35	23	16	20
31-	40	16	29	39	37	33	24	9	14	15
41-	50	13	29	29	16	30	18	15	21	9
51-	60	11	25	28	26	25	19	11	14	14
61-	70	8	18	34	34	14	5	4	10	11
71-	80	5	9	15	25	12	13	15	9	10
81-	90	1	17	19	19	20	3	13	7	2
91-	100	10	22	16	19	6	11	6	8	5
101-	200	34	61	50	73	62	48	42	47	32
201-	300	17	30	22	31	21	15	11	19	11
301-	400	0	13	21	14	8	11	7	5	3
401-	500	2	4	3	9	1	3	8	2	0
501-	600	1	8	1	8	7	2	4	1	2
601-	700	0	3	8	2	6	1	1	0	0
701-	800	12	3	1	1	0	0	0	2	3
801-	900	0	3	1	2	1	1	0	0	0
901-	1000	0	0	1	0	0	0	0	0	0
1001-	2000	0	4	9	2	2	0	3	0	2
2001-	3000	0	0	1	0	0	0	1	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	1	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		945	494	629	637	444	318	266	239	209
CUMUL. TOTALS		0	494	1123	1760	2204	2522	2788	3027	3236

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	619	0	340	959	0	0
1-	10	26	35	926	0	240	1176	936	1176
11-	20	10	24	527	0	55	582	1463	1758
21-	30	13	14	340	0	32	372	1803	2130
31-	40	11	14	246	0	45	290	2048	2420
41-	50	19	10	209	0	38	247	2257	2667
51-	60	8	12	193	0	22	215	2450	2882
61-	70	2	6	146	0	15	161	2596	3043
71-	80	4	8	134	0	17	151	2730	3194
81-	90	4	9	113	0	12	125	2843	3319
91-	100	2	4	107	0	9	116	2950	3435
101-	200	50	20	521	0	50	571	3471	4006
201-	300	7	15	199	0	11	210	3670	4216
301-	400	1	6	89	0	6	95	3759	4311
401-	500	5	3	40	0	1	41	3799	4352
501-	600	0	1	35	0	0	35	3834	4387
601-	700	4	2	27	0	0	27	3861	4414
701-	800	0	0	22	0	0	22	3883	4436
801-	900	0	1	9	0	1	10	3892	4446
901-	1000	1	1	3	0	0	3	3895	4449
1001-	2000	1	3	26	0	3	29	3921	4478
2001-	3000	0	2	4	0	1	5	3925	4483
3001-	4000	0	0	0	0	1	1	3926	4484
4001-	5000	0	0	0	0	1	1	3926	4485
5001-	6000	0	0	0	0	0	0	3926	4485
6001-	7000	0	0	0	0	0	0	3926	4485
7001-	8000	0	0	0	0	0	0	3926	4485
8001-	9000	0	0	1	0	0	1	3926	4486
9001-	10000	0	0	0	0	1	1	3926	4487
10001-100000		0	0	0	0	0	0	3926	4487
COLUMN TOTALS		168	196	4545	0	901	5446		
CUMUL. TOTALS		3404	3600	3600	3600	4501			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	EQUAL 0.00	PLANT LOAD FACTORS 0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL 0	192	0	0	0	0	0	0	0	0
1- 10	38	60	101	75	39	45	34	15	19
11- 20	22	40	34	46	19	15	15	14	10
21- 30	11	17	29	23	15	8	17	2	4
31- 40	2	19	27	23	14	10	6	10	5
41- 50	7	7	14	17	8	9	7	6	6
51- 60	10	10	13	11	15	11	5	5	5
61- 70	1	13	13	8	14	4	2	3	1
71- 80	2	9	12	8	6	9	3	7	5
81- 90	4	8	8	3	5	4	7	0	0
91- 100	1	12	7	9	6	6	2	5	0
101- 200	11	35	32	43	50	19	22	20	13
201- 300	11	19	25	14	13	15	12	11	7
301- 400	2	6	15	13	9	7	4	5	5
401- 500	4	8	5	9	3	3	1	3	4
501- 600	1	4	2	5	3	3	3	3	2
601- 700	1	1	1	1	6	4	2	3	1
701- 800	1	3	3	4	0	0	2	0	3
801- 900	0	1	2	1	2	1	2	1	0
901- 1000	0	2	2	0	0	0	1	0	1
1001- 2000	4	9	5	6	4	2	4	0	3
2001- 3000	0	0	2	2	3	1	2	2	2
3001- 4000	0	0	0	0	1	0	1	1	0
4001- 5000	0	0	1	1	0	0	0	0	0
5001- 6000	0	0	0	0	1	0	0	0	0
6001- 7000	1	0	0	0	0	1	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	1	0	0	0	0	0	0	0
9001- 10000	0	0	0	1	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	326	284	351	323	236	177	154	111	96
CUMUL. TOTALS	0	284	635	958	1194	1371	1525	1636	1732

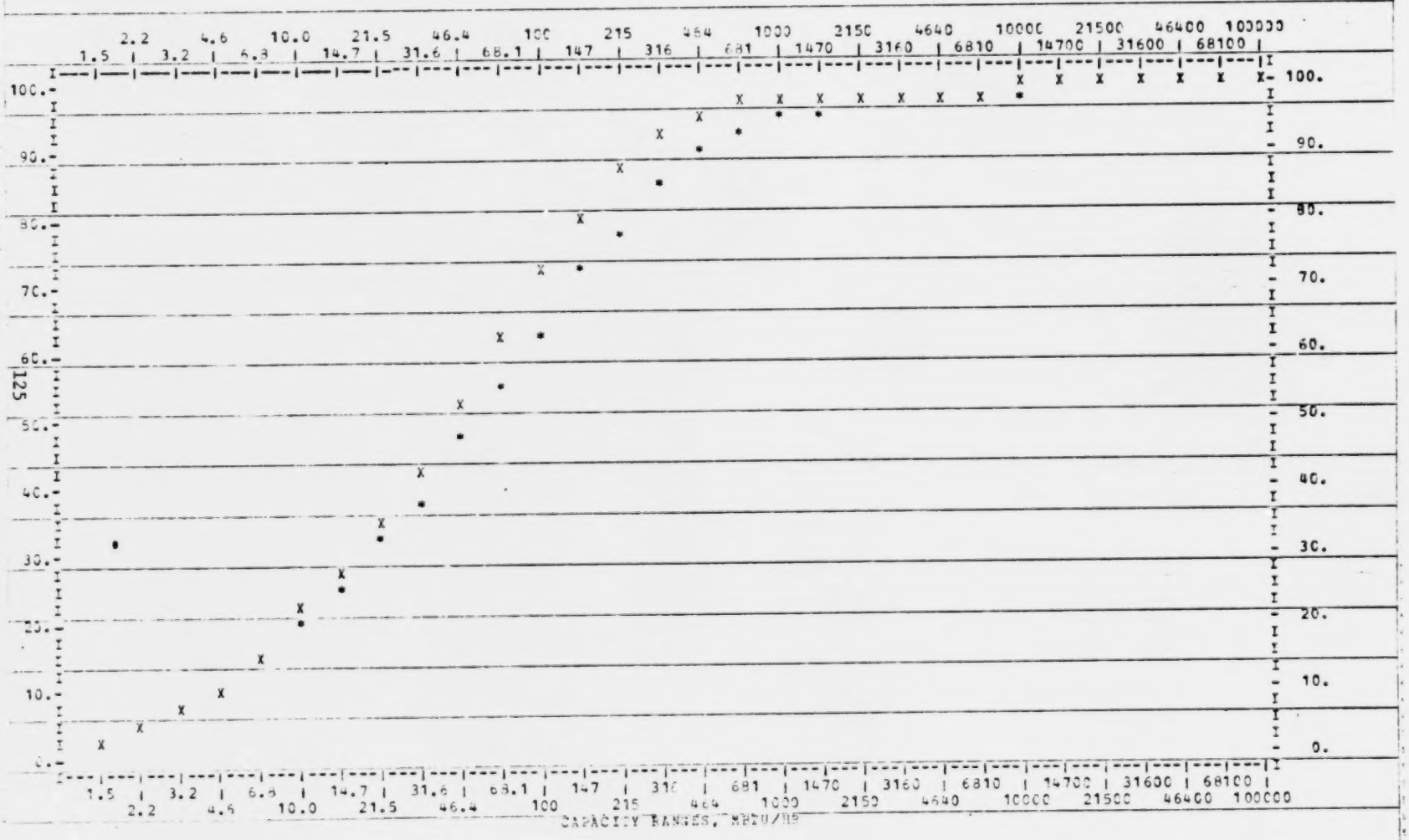
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	192	0	188	380	0	0
1-	10	15	16	452	0	120	572	452	572
11-	20	3	9	227	0	32	259	679	831
21-	30	3	4	133	0	18	151	812	982
31-	40	0	12	128	0	12	140	940	1122
41-	50	3	6	90	0	11	101	1030	1223
51-	60	4	4	93	0	8	101	1123	1324
61-	70	5	3	67	0	2	69	1190	1393
71-	80	1	2	64	0	11	75	1254	1468
81-	90	2	3	44	0	6	50	1298	1518
91-	100	3	1	52	0	5	57	1350	1575
101-	200	11	9	265	0	24	289	1615	1864
201-	300	7	6	140	0	7	147	1755	2011
301-	400	3	6	75	0	7	82	1830	2093
401-	500	2	4	46	0	5	51	1876	2144
501-	600	2	1	29	0	0	29	1905	2173
601-	700	2	2	24	0	0	24	1929	2197
701-	800	4	2	20	0	1	21	1949	2218
801-	900	0	1	11	0	2	13	1960	2231
901-	1000	0	2	8	0	0	8	1968	2239
1001-	2000	3	6	46	0	4	50	2014	2289
2001-	3000	1	2	17	0	1	18	2031	2307
3001-	4000	1	1	5	0	0	5	2036	2312
4001-	5000	0	0	2	0	1	3	2038	2315
5001-	6000	0	0	1	0	0	1	2039	2316
6001-	7000	0	0	2	0	0	2	2041	2318
7001-	8000	0	0	0	0	0	0	2041	2318
8001-	9000	0	0	1	0	0	1	2042	2319
9001-	10000	0	0	1	0	1	2	2043	2321
10001-	20000	0	0	0	0	0	0	2043	2321
20001-	30000	0	0	0	0	0	0	2043	2321
30001-	40000	0	0	0	0	0	0	2043	2321
40001-	50000	0	0	0	0	0	0	2043	2321
50001-	100000	0	0	0	0	0	0	2043	2321
COLUMN TOTALS		75	102	2235	0	466	2701		
CUMUL. TOTALS		1807	1909	1909	1909	2375			

BOILER POPULATION DATA -- INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

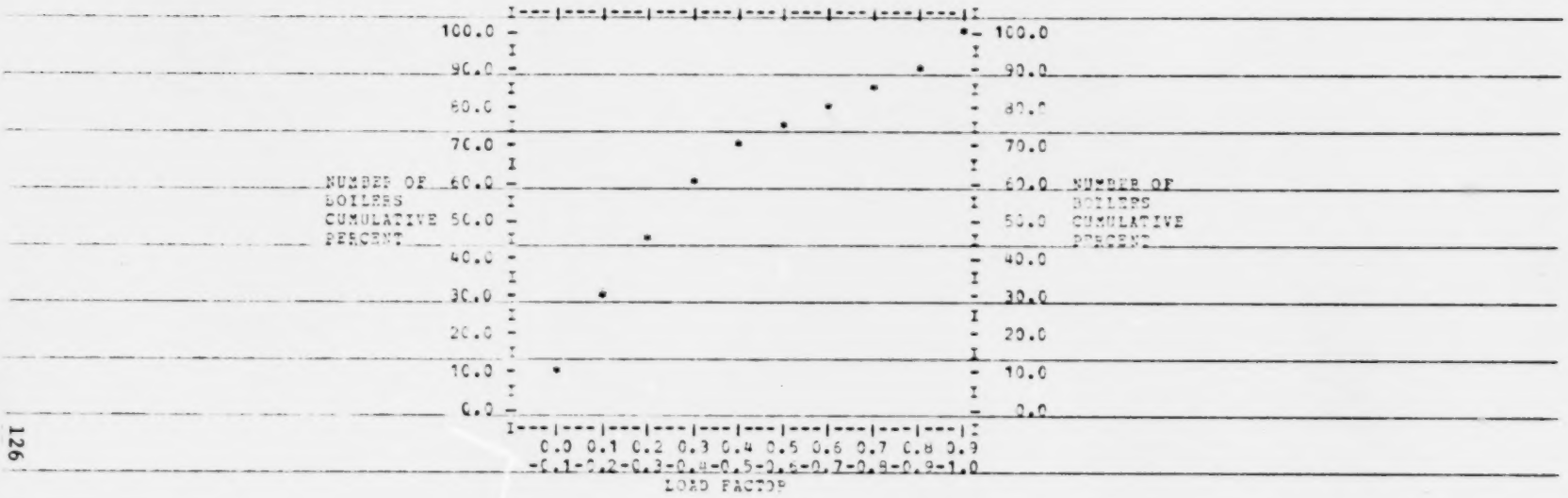
X--INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS

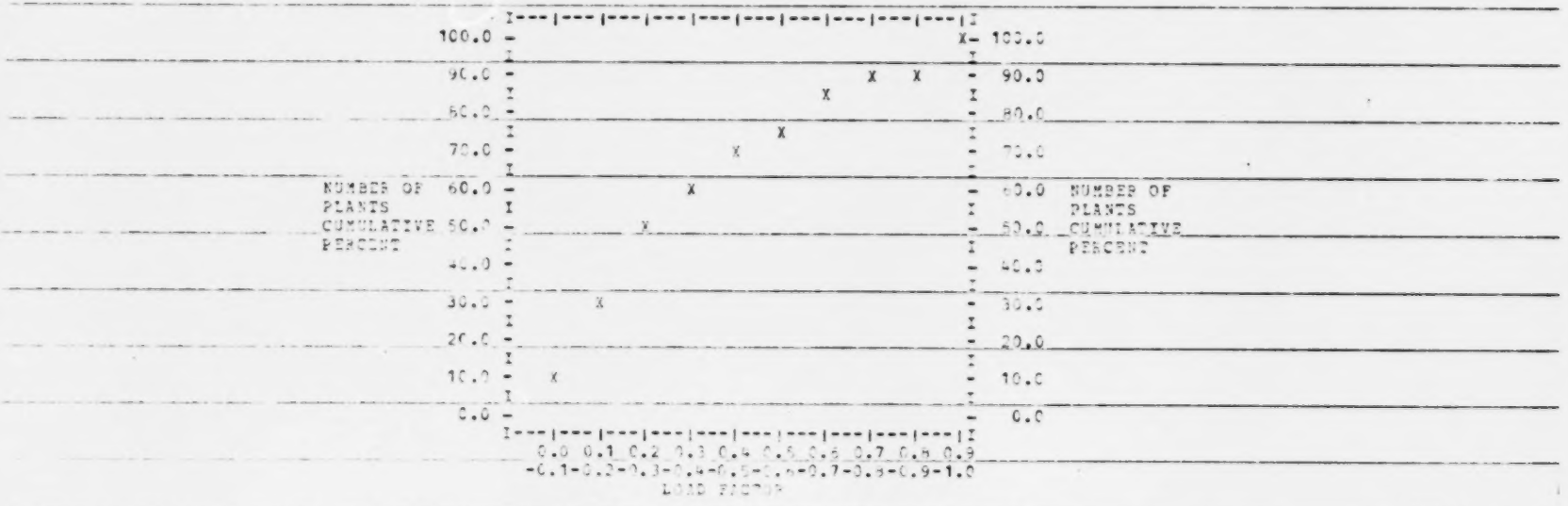


125

NUMBER OF BOILERS (ALL DATA) = 5048 NUMBER OF BOILERS (RELIABLE DATA) = 3000
NUMBER OF PLANTS (ALL DATA) = 2701 NUMBER OF PLANTS (RELIABLE DATA) = 1909

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTORS

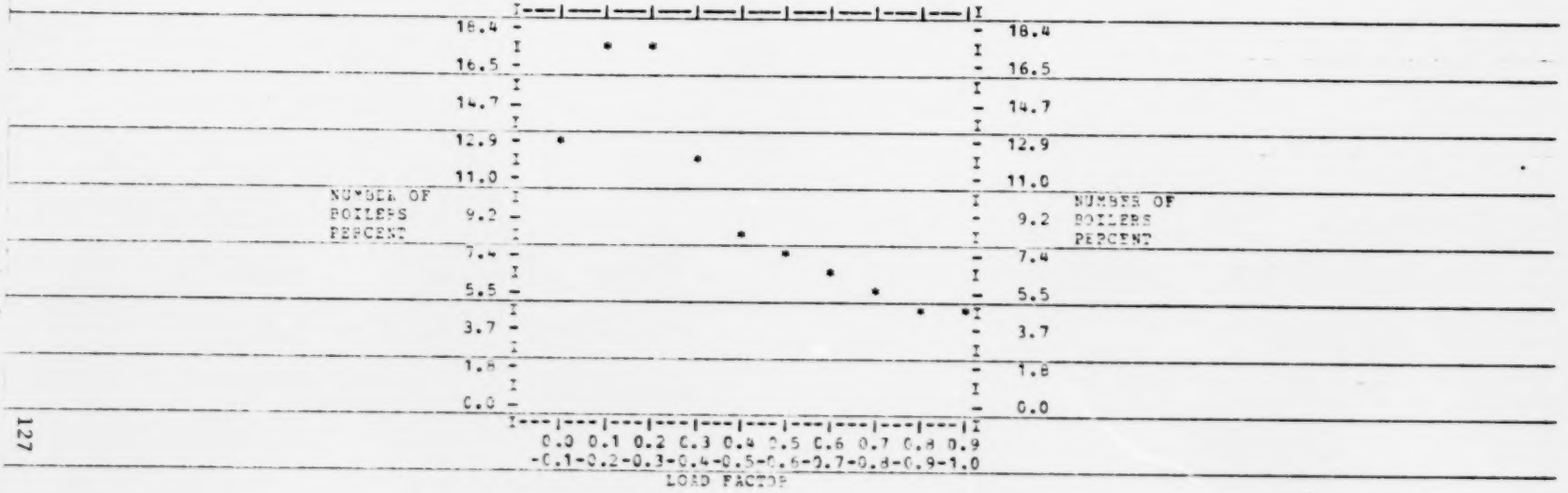


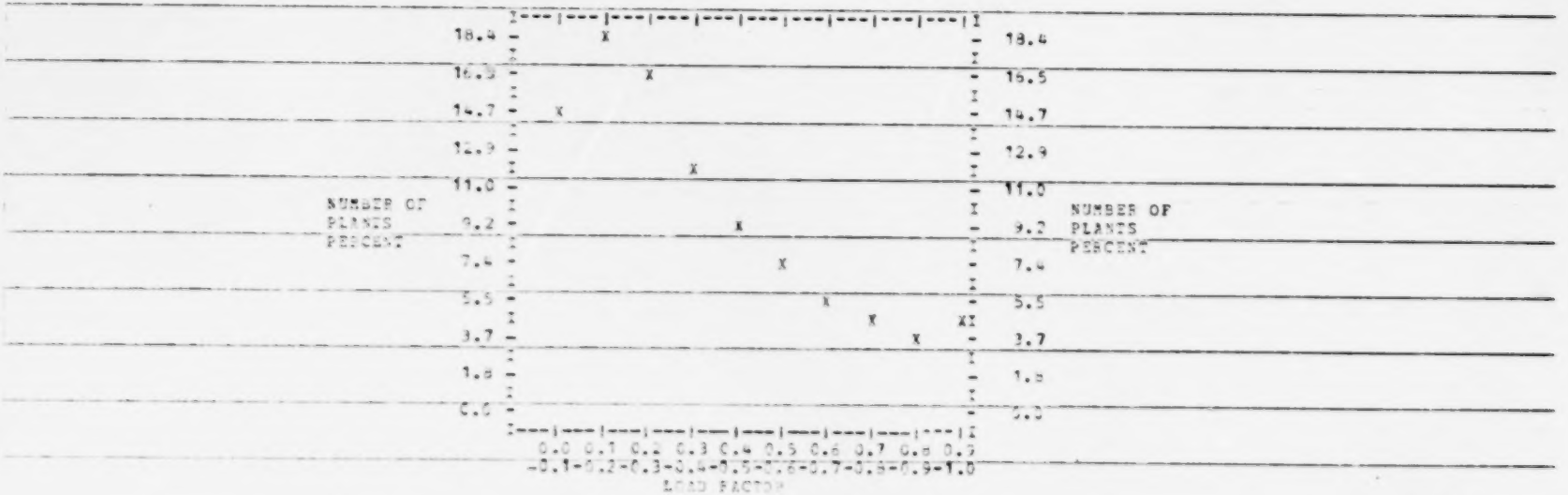


IG1-6

NUMBER OF BOILERS (ALL DATA) = 5446 NUMBER OF BOILERS (RELIABLE DATA) = 3630
NUMBER OF PLANTS (ALL DATA) = 2701 NUMBER OF PLANTS (RELIABLE DATA) = 1939

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTOR DENSITIES





NUMBER OF BOILERS (ALL DATA) = 5446 NUMBER OF BOILERS (RELIABLE DATA) = 2630
NUMBER OF PLANTS (ALL DATA) = 4701 NUMBER OF PLANTS (RELIABLE DATA) = 2439

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS								
		EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	595.	581.	810.	668.	430.	380.	342.	130.	209.
11-	20	600.	1032.	1327.	1659.	996.	603.	485.	491.	802.
21-	30	909.	932.	1338.	1402.	901.	919.	501.	388.	540.
31-	40	581.	1067.	1387.	1384.	1148.	681.	324.	500.	567.
41-	50	602.	1368.	1370.	735.	1391.	824.	696.	995.	822.
51-	60	624.	1423.	1614.	1478.	1382.	1075.	630.	784.	791.
61-	70	514.	1185.	2269.	2226.	931.	329.	263.	686.	713.
71-	80	375.	694.	1152.	1934.	919.	1000.	1195.	1406.	750.
81-	90	90.	1462.	1628.	1571.	1708.	253.	1140.	613.	175.
91-	100	975.	2134.	1558.	1964.	585.	1065.	582.	792.	500.
101-	200	4934.	9150.	7372.	10266.	9065.	9983.	6301.	6767.	4240.
201-	300	4398.	7581.	8345.	7598.	5103.	3804.	2717.	8448.	2670.
301-	400	0.	4696.	7623.	4874.	2582.	3684.	2583.	1630.	1136.
401-	500	922.	1786.	1337.	8144.	412.	1350.	3655.	953.	0.
501-	600	576.	4534.	600.	4163.	3454.	1060.	2388.	600.	1114.
601-	700	0.	1933.	5378.	1263.	3908.	614.	801.	0.	0.
701-	800	8941.	2230.	800.	727.	0.	0.	0.	1599.	2350.
801-	900	0.	2564.	809.	1770.	836.	840.	0.	0.	0.
901-	1000	0.	0.	930.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	6431.	13279.	2800.	2926.	0.	4532.	0.	2886.
2001-	3000	0.	0.	2220.	0.	0.	0.	2140.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	8100.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		25626.	60857.	60110.	52329.	39293.	25658.	31135.	22782.	19465.
CUMUL. TOTALS		0.	60857.	120967.	173296.	213089.	238747.	269882.	292664.	312029.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	147.	211.	4493.	0.	986.	5479.	4493.	5479.
11-	20	152.	364.	8111.	0.	905.	9016.	12604.	14495.
21-	30	357.	442.	8648.	0.	813.	9461.	21290.	23994.
31-	40	416.	643.	8876.	0.	1636.	10512.	30166.	34506.
41-	50	916.	454.	8774.	0.	1725.	11499.	39940.	46005.
51-	60	465.	691.	10957.	0.	1237.	12194.	50897.	58199.
61-	70	131.	394.	9639.	0.	963.	10602.	60536.	68801.
71-	80	246.	466.	10162.	0.	1271.	11433.	70718.	80234.
81-	90	357.	776.	9773.	0.	1030.	10773.	80491.	91027.
91-	100	194.	196.	10485.	0.	656.	11341.	90946.	102368.
101-	200	7965.	3301.	76635.	0.	6773.	83388.	167581.	185756.
201-	300	2006.	3652.	49253.	0.	2515.	51768.	216834.	237524.
301-	400	369.	2131.	31311.	0.	2224.	33535.	248125.	271059.
401-	500	2320.	1339.	18186.	0.	480.	18668.	266313.	289727.
501-	600	0.	537.	19556.	0.	0.	19556.	285869.	309283.
601-	700	2730.	1340.	17765.	0.	0.	17765.	303634.	327048.
701-	800	0.	0.	16655.	0.	0.	16655.	320289.	343703.
801-	900	0.	883.	7884.	0.	875.	8559.	327573.	352262.
901-	1000	1000.	959.	2889.	0.	0.	2889.	330862.	355151.
1001-	2000	1191.	4843.	34868.	0.	3490.	42368.	365750.	397519.
2001-	3000	0.	5325.	9685.	0.	2090.	11775.	379435.	409294.
3001-	4000	0.	0.	0.	0.	3210.	3210.	379435.	412504.
4001-	5000	0.	0.	0.	0.	4540.	4540.	379435.	417044.
5001-	6000	0.	0.	0.	0.	0.	0.	379435.	417044.
6001-	7000	0.	0.	0.	0.	0.	0.	379435.	417044.
7001-	8000	0.	0.	0.	0.	0.	0.	379435.	417044.
8001-	9000	0.	0.	8100.	0.	0.	8100.	387535.	425144.
9001-	10000	0.	0.	0.	0.	9000.	9000.	387535.	435144.
10001-100000		0.	0.	0.	0.	0.	0.	387535.	435044.
COLUMN TOTALS		20957.	28921.	387535.	0.	47509.	435044.		
CUMUL. TOTALS		332986.	361907.	361907.	361907.	409416.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	151.	281.	439.	345.	193.	219.	181.	59.	82.
11- 20	340.	587.	536.	715.	268.	251.	228.	241.	162.
21- 30	278.	431.	737.	568.	370.	203.	426.	42.	111.
31- 40	67.	677.	972.	843.	475.	367.	209.	353.	191.
41- 50	325.	310.	667.	782.	372.	421.	316.	272.	284.
51- 60	539.	552.	739.	630.	824.	641.	291.	263.	287.
61- 70	64.	841.	849.	529.	928.	267.	129.	202.	70.
71- 80	152.	686.	913.	625.	465.	692.	224.	531.	373.
81- 90	358.	679.	685.	255.	435.	337.	606.	0.	0.
91- 100	94.	1174.	679.	863.	577.	574.	200.	492.	0.
101- 200	1746.	5160.	4405.	6206.	7390.	2724.	3357.	2974.	1806.
201- 300	2650.	4716.	6188.	3428.	3444.	3696.	3014.	2680.	1798.
301- 400	686.	2062.	5288.	4511.	3147.	2421.	1307.	1796.	1701.
401- 500	1756.	3507.	2170.	4196.	1318.	1306.	416.	1376.	1742.
501- 600	520.	2137.	1164.	2635.	1731.	1640.	1730.	1735.	1134.
601- 700	650.	673.	653.	636.	3908.	2594.	1289.	1959.	630.
701- 800	766.	2320.	741.	3037.	0.	0.	1523.	0.	2350.
801- 900	0.	824.	1710.	870.	1695.	846.	1630.	894.	0.
901- 1000	0.	1923.	1975.	0.	0.	0.	978.	0.	991.
1001- 2000	4902.	14236.	6596.	8530.	4927.	2804.	6338.	0.	3671.
2001- 3000	0.	0.	5628.	4984.	6931.	2725.	4420.	5150.	4618.
3001- 4000	0.	0.	0.	0.	3845.	0.	3976.	3200.	0.
4001- 5000	0.	0.	4470.	4537.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	5241.	0.	0.	0.	0.
6001- 7000	6615.	0.	0.	0.	0.	6342.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	8100.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	10000.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	22660.	51876.	48206.	59725.	48484.	31072.	32877.	24241.	22001.
CUMUL. TOTALS	0.	51876.	100082.	159807.	208291.	239363.	272240.	296481.	318482.

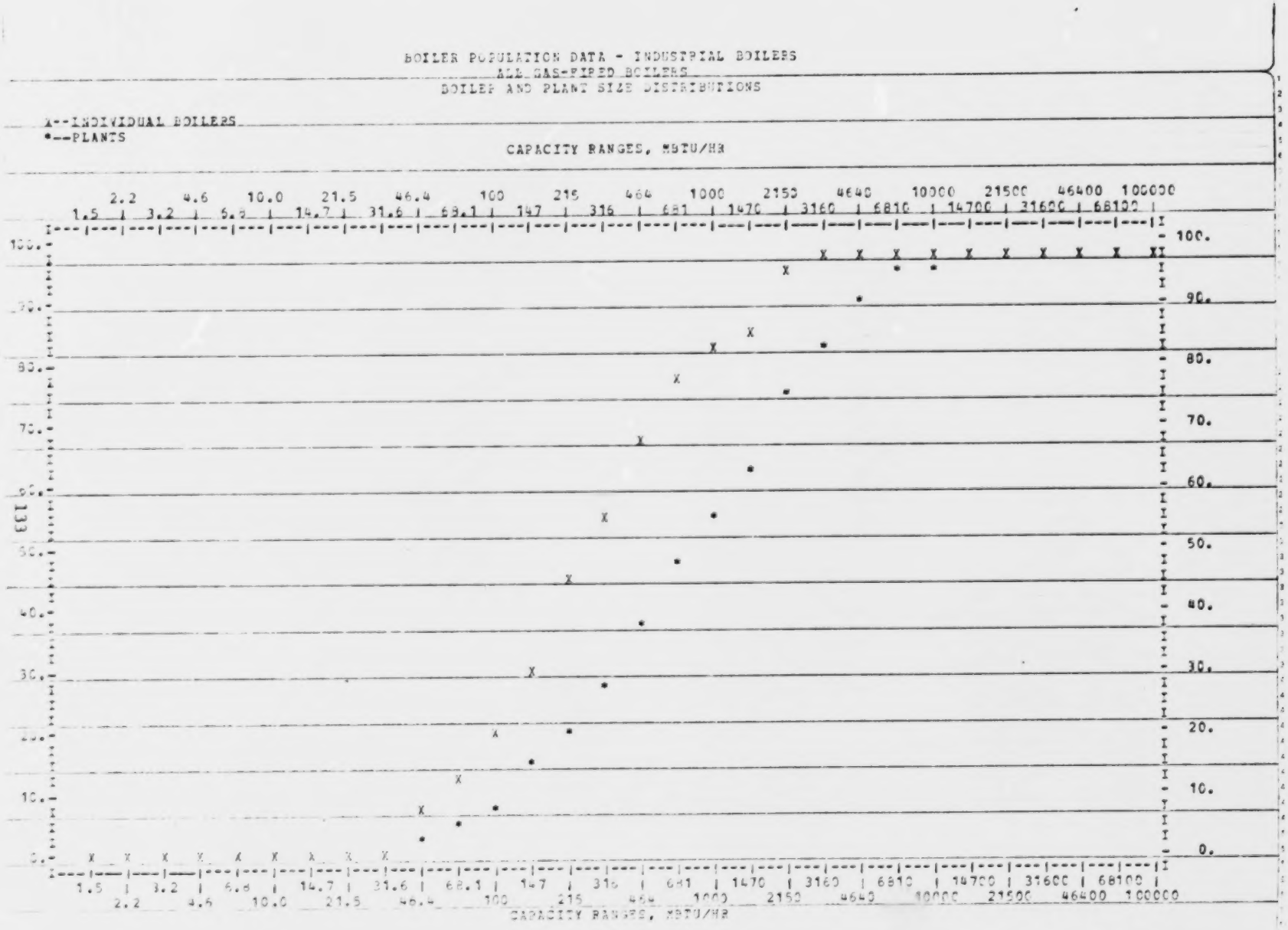
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	78.	82.	2110.	0.	478.	2588.	2110.	2588.
11-	20	52.	125.	3605.	0.	500.	4005.	5615.	6593.
21-	30	77.	94.	3337.	0.	448.	3785.	8952.	10378.
31-	40	0.	453.	4407.	0.	442.	5049.	13359.	15427.
41-	50	144.	267.	4161.	0.	489.	4650.	17720.	20077.
51-	60	224.	219.	5229.	0.	440.	5669.	22949.	25746.
61-	70	324.	190.	4393.	0.	124.	4517.	27342.	30263.
71-	80	71.	146.	4878.	0.	812.	5690.	32220.	35953.
81-	90	178.	254.	3787.	0.	512.	4299.	36007.	40252.
91-	100	240.	0.	5035.	0.	465.	5530.	41042.	45782.
101-	200	1461.	1344.	38633.	0.	3348.	41981.	79675.	87763.
201-	300	1914.	1448.	34971.	0.	1697.	38638.	114646.	124401.
301-	400	1070.	2122.	26101.	0.	2405.	28598.	140837.	152997.
401-	500	885.	1776.	20400.	0.	2340.	22840.	161287.	175837.
501-	600	1100.	837.	16063.	0.	0.	16063.	177350.	191900.
601-	700	1400.	1310.	15702.	0.	0.	15702.	193052.	207602.
701-	800	3031.	1482.	15250.	0.	718.	15968.	208302.	223570.
801-	900	0.	504.	4343.	0.	1752.	11098.	212645.	234668.
901-	1000	0.	1899.	7766.	0.	0.	7766.	220411.	242434.
1001-	2000	4409.	8688.	65183.	0.	5512.	70615.	285514.	313049.
2001-	3000	2420.	5320.	42201.	0.	2090.	44291.	327715.	357340.
3001-	4000	3040.	3828.	17959.	0.	0.	17959.	345674.	375299.
4001-	5000	0.	0.	9007.	0.	4540.	13547.	354681.	388846.
5001-	6000	0.	0.	5241.	0.	0.	5241.	359922.	394087.
6001-	7000	0.	0.	12957.	0.	0.	12957.	372879.	407044.
7001-	8000	0.	0.	0.	0.	0.	0.	372879.	407044.
8001-	9000	0.	0.	8100.	0.	0.	8100.	380979.	415144.
9001-	10000	0.	0.	10000.	0.	9900.	19900.	390979.	435044.
10001-	20000	0.	0.	0.	0.	0.	0.	390979.	435044.
20001-	30000	0.	0.	0.	0.	0.	0.	390979.	435044.
30001-	40000	0.	0.	0.	0.	0.	0.	390979.	435044.
40001-	50000	0.	0.	0.	0.	0.	0.	390979.	435044.
50001-	100000	0.	0.	0.	0.	0.	0.	390979.	435044.
COLUMN TOTALS		22809.	32813.	390979.	0.	39065.	435044.		
CUMTOT. TOTALS		341306.	373319.	373319.	373319.	412384.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS



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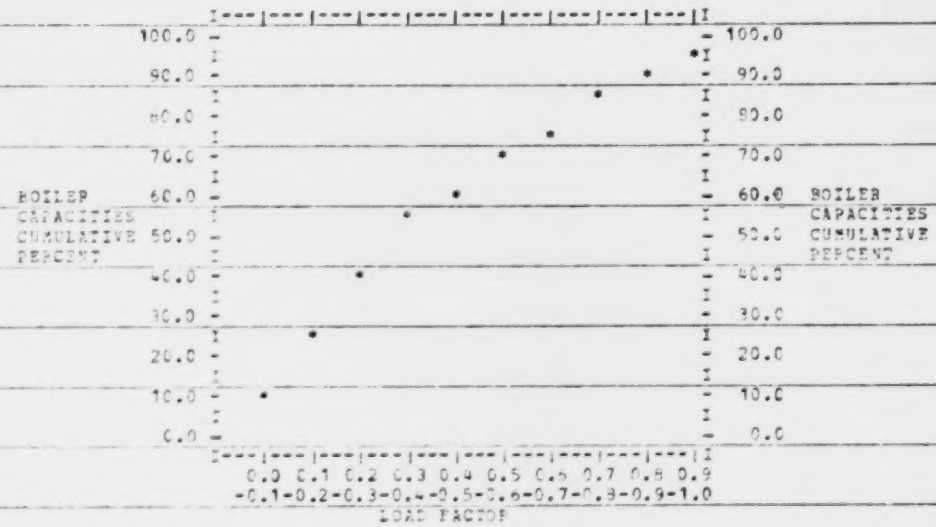
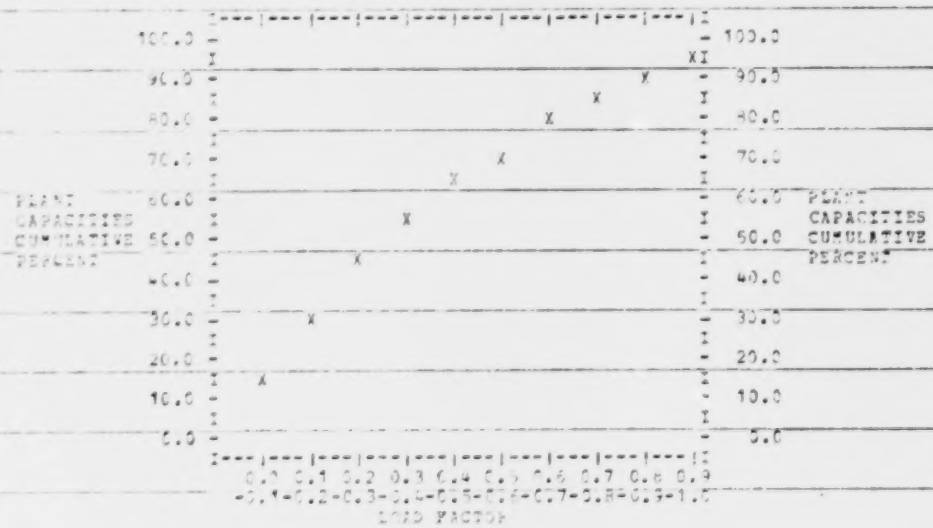
PLANT CAPACITIES (ALL DATA) = 436044. PLANT CAPACITIES (RELIABLE DATA) = 373319.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTORS





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PLANT CAPACITIES (ALL DATA) = 435044. PLANT CAPACITIES (RELIABLE DATA) = 373319.

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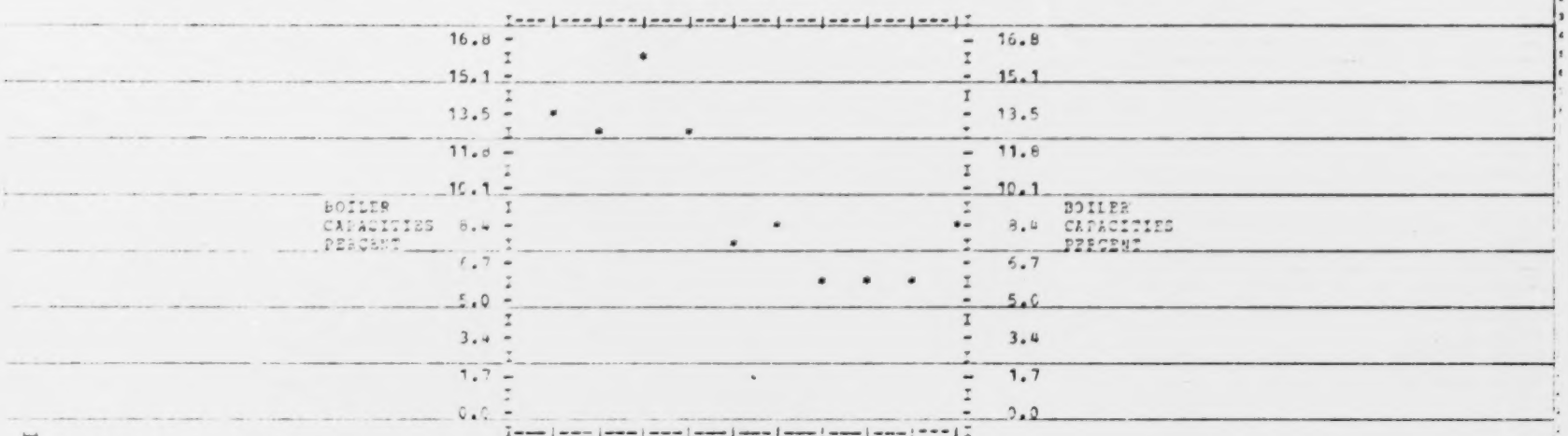
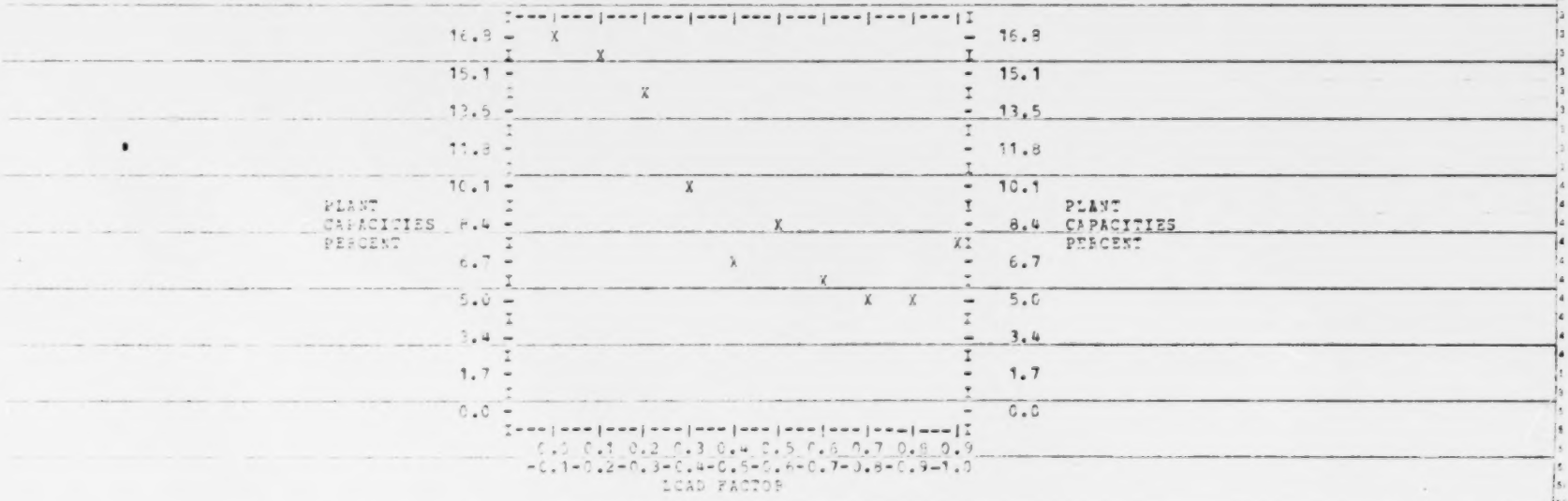
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTOR DENSITIES





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PLANT CAPACITIES (ALL DATA) = 350444. PLANT CAPACITIES (PLOTTABLE DATA) = 273316.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	940	13	0	0	1	0	5	0	0
1-	10	1082	89	1	0	1	0	1	0	0
11-	20	507	64	0	2	1	0	4	2	0
21-	30	339	24	2	1	0	0	4	0	1
31-	40	243	30	1	0	7	0	3	1	4
41-	50	206	28	0	0	6	1	1	0	2
51-	60	169	33	5	0	2	0	3	0	2
61-	70	118	30	0	0	1	2	0	2	3
71-	80	124	11	9	0	1	1	2	2	0
81-	90	104	10	0	0	1	0	9	0	0
91-	100	84	21	0	0	3	0	0	1	7
101-	200	465	53	6	0	6	2	8	9	9
201-	300	170	24	1	0	3	5	1	3	1
301-	400	77	10	1	0	3	0	1	0	2
401-	500	25	13	0	0	0	1	0	0	1
501-	600	32	0	0	0	0	0	1	0	0
601-	700	18	2	1	0	0	0	2	0	0
701-	800	18	3	0	0	0	0	0	0	1
801-	900	9	1	0	0	0	0	0	0	0
901-	1000	2	0	0	0	1	0	0	0	0
1001-	2000	24	0	0	0	0	0	0	0	2
2001-	3000	4	0	0	0	1	0	0	0	0
3001-	4000	1	0	0	0	0	0	0	0	0
4001-	5000	1	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	1	0	0	0	0	0	0	0	0
9001-	10000	1	0	0	0	0	0	0	0	0
10001-100000		0	0	0	0	0	0	0	0	0
COLUMN TOTALS		4764	459	27	3	38	12	45	18	35
CUMUL. TOTALS		4764	5223	5250	5253	5291	5303	5348	5366	5401

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL	0	0	0	0	0	0	0	0	959	959
1-	10	0	1	0	1	0	0	0	1176	2135
11-	20	1	0	0	1	0	0	0	582	2717
21-	30	0	0	0	1	0	0	0	372	3089
31-	40	0	0	0	0	0	1	0	290	3379
41-	50	0	0	3	0	0	0	0	247	3626
51-	60	0	0	1	0	0	0	0	215	3841
61-	70	1	6	0	0	0	0	0	161	4002
71-	80	0	0	0	0	0	1	0	151	4153
81-	90	1	0	0	0	0	0	0	125	4278
91-	100	0	0	0	0	0	0	0	116	4394
101-	200	7	3	0	0	0	2	1	571	4965
201-	300	1	0	0	0	1	0	0	210	5175
301-	400	0	1	0	0	0	0	0	95	5270
401-	500	1	0	0	0	0	0	0	41	5311
501-	600	1	0	0	0	1	0	0	35	5346
601-	700	4	0	0	0	0	0	0	27	5373
701-	800	0	0	0	0	0	0	0	22	5395
801-	900	0	0	0	0	0	0	0	10	5405
901-	1000	0	0	0	0	0	0	0	3	5408
1001-	2000	2	1	0	0	0	0	0	29	5437
2001-	3000	0	0	0	0	0	0	0	5	5442
3001-	4000	0	0	0	0	0	0	0	1	5443
4001-	5000	0	0	0	0	0	0	0	1	5444
5001-	6000	0	0	0	0	0	0	0	0	5444
6001-	7000	0	0	0	0	0	0	0	0	5444
7001-	8000	0	0	0	0	0	0	0	0	5444
8001-	9000	0	0	0	0	0	0	0	1	5445
9001-	10000	0	0	0	0	0	0	0	1	5446
10001-	100000	0	0	0	0	0	0	0	0	5446
COLUMN TOTALS		19	12	4	3	2	4	1	5446	
CUMUL. TOTALS		5420	5432	5436	5439	5441	5445	5446		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	371	7	0	0	0	0	2	0	0
1-	10	519	49	1	0	1	0	1	0	0
11-	20	235	22	0	1	0	0	0	0	0
21-	30	143	7	0	0	0	0	1	0	0
31-	40	127	12	0	0	1	0	0	0	0
41-	50	95	6	0	0	0	0	0	0	0
51-	60	91	8	0	0	0	0	0	0	0
61-	70	63	5	2	0	0	0	2	0	0
71-	80	67	5	1	0	0	0	1	0	1
81-	90	42	5	0	0	1	0	1	0	0
91-	100	47	8	1	0	1	0	0	0	0
101-	200	243	37	0	0	3	1	2	0	2
201-	300	134	10	0	0	0	1	0	1	0
301-	400	69	7	1	0	1	1	0	0	1
401-	500	40	9	0	0	0	0	0	0	1
501-	600	25	3	0	0	0	0	0	1	0
601-	700	18	4	1	0	0	0	0	1	0
701-	800	16	1	0	0	1	0	1	0	1
801-	900	9	3	0	0	0	0	1	0	0
901-	1000	7	1	0	0	0	0	0	0	0
1001-	2000	40	4	1	0	1	0	0	1	0
2001-	3000	9	3	0	1	2	1	1	0	0
3001-	4000	4	0	1	0	0	0	0	0	0
4001-	5000	2	0	1	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	1
6001-	7000	1	1	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	1	0	0	0	0	0	0	0	0
9001-	10000	2	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		2420	217	8	2	12	4	11	4	7
CUMUL. TOTALS		2420	2637	2645	2647	2659	2663	2674	2678	2685

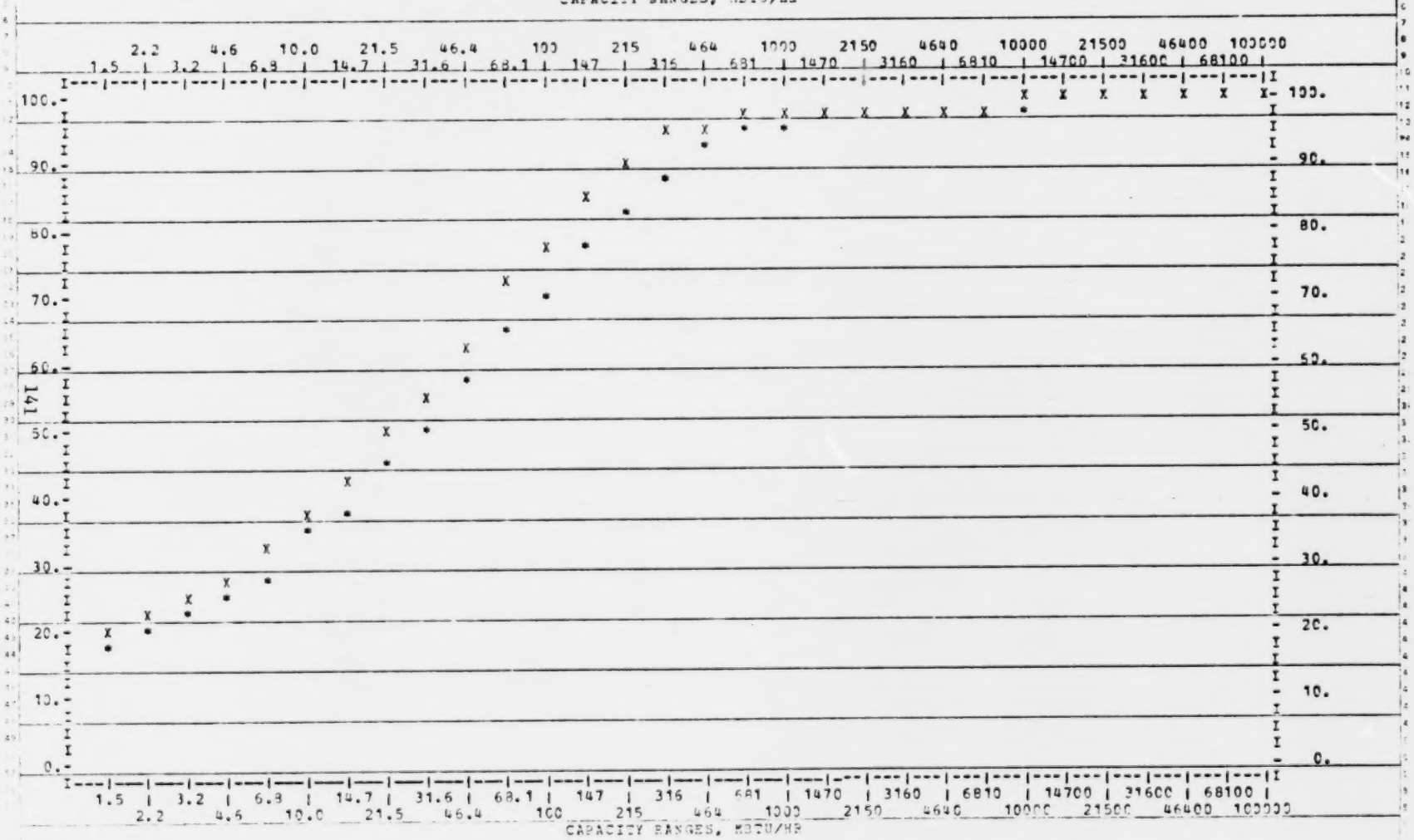
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0	0	0	0	0	0	0	380	380
1- 10	0	1	0	0	0	0	0	572	952
11- 20	1	0	0	0	0	0	0	259	1211
21- 30	0	0	0	0	0	0	0	151	1362
31- 40	0	0	0	0	0	0	0	140	1502
41- 50	0	0	0	0	0	0	0	101	1603
51- 60	0	0	1	1	0	0	0	101	1704
61- 70	0	1	0	0	0	0	0	69	1773
71- 80	0	0	0	0	0	0	0	75	1848
81- 90	1	0	0	0	0	0	0	50	1898
91- 100	0	0	0	0	0	0	0	57	1955
101- 200	0	0	1	0	0	0	0	289	2244
201- 300	1	0	0	0	0	0	0	147	2391
301- 400	0	1	0	0	0	1	0	82	2473
401- 500	0	1	0	0	0	0	0	51	2524
501- 600	0	0	0	0	0	0	0	29	2553
601- 700	0	0	0	0	0	0	0	24	2577
701- 800	0	1	0	0	0	0	0	21	2598
801- 900	0	0	0	0	0	0	0	13	2611
901- 1000	0	0	0	0	0	0	0	8	2619
1001- 2000	1	1	1	0	0	0	0	50	2669
2001- 3000	1	0	0	0	0	0	0	18	2687
3001- 4000	0	0	0	0	0	0	0	5	2692
4001- 5000	0	0	0	0	0	0	0	3	2695
5001- 6000	0	0	0	0	0	0	0	1	2696
6001- 7000	0	0	0	0	0	0	0	2	2698
7001- 8000	0	0	0	0	0	0	0	0	2698
8001- 9000	0	0	0	0	0	0	0	1	2699
9001- 10000	0	0	0	0	0	0	0	2	2701
10001- 20000	0	0	0	0	0	0	0	0	2701
20001- 30000	0	0	0	0	0	0	0	0	2701
30001- 40000	0	0	0	0	0	0	0	0	2701
40001- 50000	0	0	0	0	0	0	0	0	2701
50001-100000	0	0	0	0	0	0	0	0	2701
COLUMN TOTALS	5	6	3	1	0	1	0	2701	
CUMUL. TOTALS	2690	2696	2699	2700	2700	2701	2701		

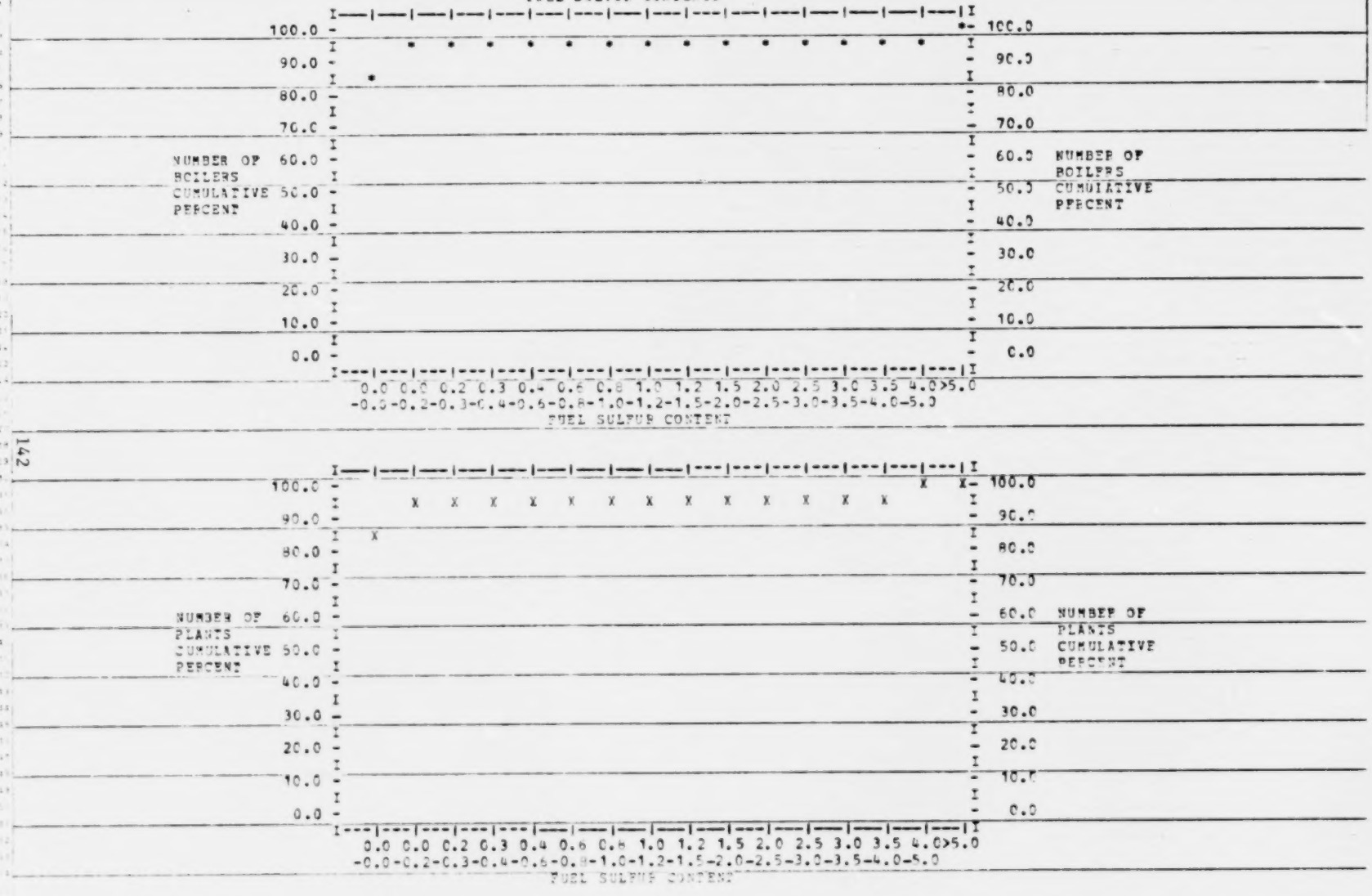
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



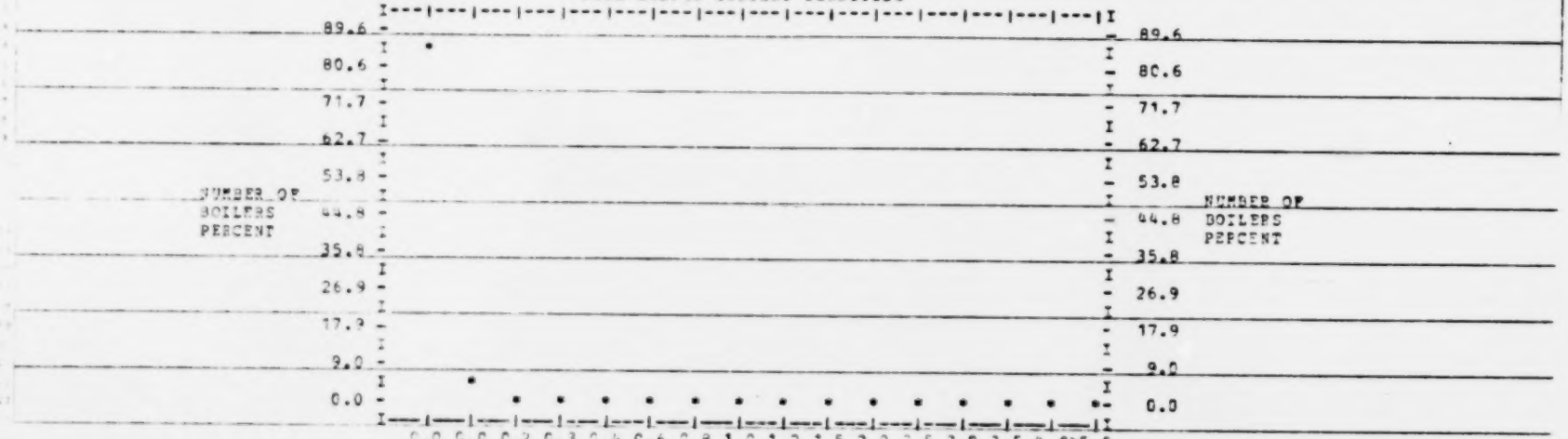
NUMBER OF BOILERS (ALL DATA) = 5446
NUMBER OF PLANTS (ALL DATA) = 2701

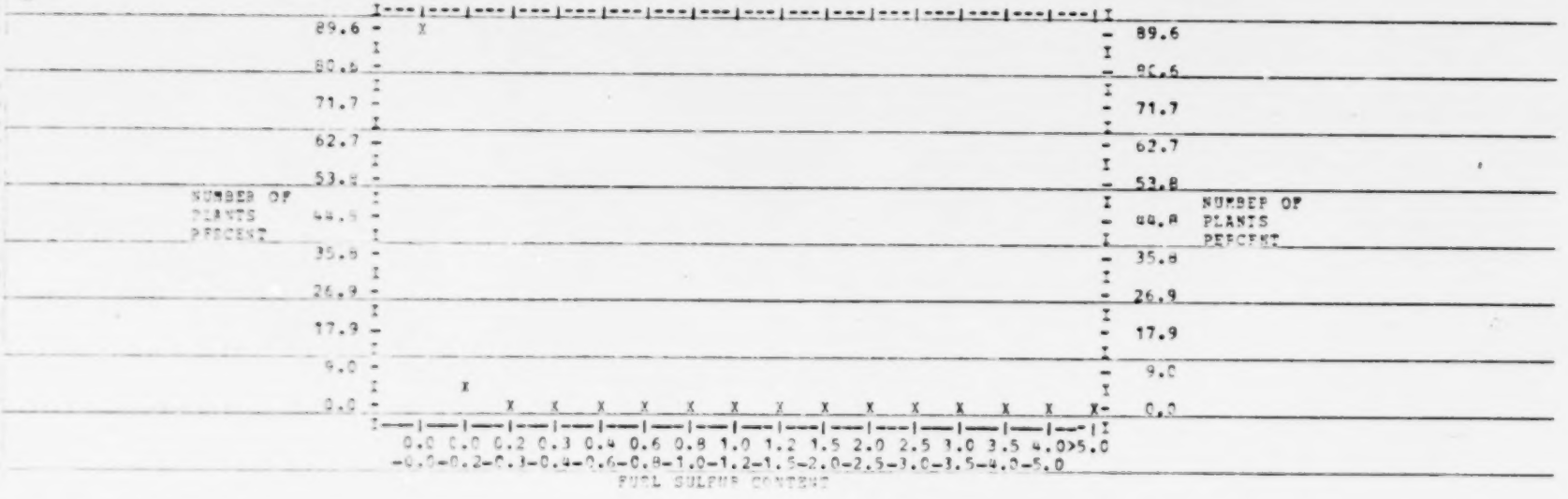
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS



NUMBER OF BOILERS (ALL DATA) = 5445
NUMBER OF PLANTS (ALL DATA) = 2701

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 5446
NUMBER OF PLANTS (ALL DATA) = 2701

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	5027.	429.	1.	0.	5.	0.	1.	0.	0.
11-	20	7884.	945.	0.	33.	19.	0.	76.	32.	0.
21-	30	8671.	593.	60.	28.	0.	0.	100.	0.	21.
31-	40	8805.	1093.	40.	0.	258.	0.	117.	32.	132.
41-	50	9618.	1298.	0.	0.	263.	42.	50.	0.	90.
51-	60	9578.	1909.	265.	0.	112.	0.	173.	0.	106.
61-	70	7711.	2019.	0.	0.	67.	126.	0.	0.	206.
71-	80	9417.	852.	661.	0.	77.	76.	153.	142.	0.
81-	90	8838.	877.	0.	0.	83.	0.	787.	0.	0.
91-	100	8208.	2041.	0.	0.	300.	0.	0.	92.	700.
101-	200	67495.	8239.	815.	0.	978.	302.	1094.	1384.	1139.
201-	300	42113.	5766.	300.	0.	690.	1221.	235.	733.	254.
301-	400	27233.	3434.	365.	0.	1170.	0.	375.	0.	640.
401-	500	11407.	5833.	0.	0.	0.	453.	0.	0.	475.
501-	600	17846.	0.	0.	0.	0.	0.	600.	0.	0.
601-	700	11953.	1263.	601.	0.	0.	0.	1260.	0.	0.
701-	800	13640.	2215.	0.	0.	0.	0.	0.	0.	800.
801-	900	7750.	409.	0.	0.	0.	0.	0.	0.	0.
901-	1000	1959.	0.	0.	0.	930.	0.	0.	0.	0.
1001-	2000	34771.	0.	0.	0.	0.	0.	0.	0.	3740.
2001-	3000	9685.	0.	0.	0.	2090.	0.	0.	0.	0.
3001-	4000	3210.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	4540.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	8100.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	9900.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		355459.	39665.	3108.	59.	7042.	2220.	5021.	2815.	9303.
CUMUL. TOTALS		355459.	395124.	398232.	398291.	405333.	407553.	412574.	415389.	423292.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	7.	0.	9.	0.	0.	0.	5479.	5479.
11-	20	11.	0.	0.	16.	0.	0.	0.	9016.	14495.
21-	30	0.	0.	0.	28.	0.	0.	0.	9499.	23994.
31-	40	0.	0.	0.	0.	0.	35.	0.	10512.	34506.
41-	50	0.	0.	138.	0.	0.	0.	0.	11499.	46005.
51-	60	0.	0.	51.	0.	0.	0.	0.	12194.	58199.
61-	70	68.	405.	0.	0.	0.	0.	0.	10602.	68801.
71-	80	0.	0.	0.	0.	0.	75.	0.	11453.	80254.
81-	90	88.	0.	0.	0.	0.	0.	0.	10773.	91027.
91-	100	0.	0.	0.	0.	0.	0.	0.	11341.	102368.
101-	200	1027.	443.	0.	0.	0.	300.	172.	83388.	185756.
201-	300	225.	0.	0.	0.	231.	0.	0.	51768.	237524.
301-	400	0.	318.	0.	0.	0.	0.	0.	33535.	271059.
401-	500	450.	0.	0.	0.	0.	0.	0.	18668.	289727.
501-	600	600.	0.	0.	0.	510.	0.	0.	19556.	309283.
601-	700	2688.	0.	0.	0.	0.	0.	0.	17765.	327048.
701-	800	0.	0.	0.	0.	0.	0.	0.	16655.	343703.
801-	900	0.	0.	0.	0.	0.	0.	0.	8559.	352262.
901-	1000	0.	0.	0.	0.	0.	0.	0.	2889.	355151.
1001-	2000	2368.	1477.	0.	0.	0.	0.	0.	42368.	397519.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	11775.	409294.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	3210.	412504.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	4540.	417044.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	417044.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	417044.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	417044.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	8100.	425144.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	9900.	435044.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
COLUMN TOTALS		7537.	2650.	189.	53.	741.	410.	172.	435044.	
CUMUL. TOTALS		430829.	433479.	433668.	433721.	434462.	434872.	435044.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FULL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	2348.	226.	1.	0.	5.	0.	1.	0.	0.
11-	20	3657.	319.	0.	18.	0.	0.	0.	0.	0.
21-	30	3561.	169.	0.	0.	0.	0.	25.	0.	0.
31-	40	4583.	435.	0.	0.	31.	0.	0.	0.	0.
41-	50	4367.	283.	0.	0.	0.	0.	0.	0.	0.
51-	60	5110.	455.	0.	0.	0.	0.	0.	0.	0.
61-	70	4115.	332.	0.	0.	0.	0.	0.	0.	0.
71-	80	5081.	341.	75.	0.	0.	0.	77.	0.	76.
81-	90	3621.	421.	0.	0.	83.	0.	86.	0.	0.
91-	100	4575.	762.	100.	0.	93.	0.	0.	0.	0.
101-	200	35296.	5336.	0.	0.	404.	160.	375.	0.	270.
201-	300	33450.	2404.	0.	0.	0.	256.	0.	250.	0.
301-	400	24018.	2459.	366.	0.	315.	360.	0.	0.	386.
401-	500	17884.	4079.	0.	0.	0.	0.	0.	0.	475.
501-	600	13982.	1631.	0.	0.	0.	0.	0.	600.	0.
601-	700	11412.	2653.	601.	0.	0.	0.	0.	636.	0.
701-	800	12201.	780.	0.	0.	725.	0.	787.	0.	732.
801-	900	7661.	2578.	0.	0.	0.	0.	859.	0.	0.
901-	1000	6778.	988.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	55697.	5853.	1697.	0.	1952.	0.	0.	1541.	0.
2001-	3000	21060.	735.	0.	2770.	5030.	2986.	2398.	0.	0.
3001-	4000	13993.	0.	3976.	0.	0.	0.	0.	0.	0.
4001-	5000	9077.	0.	4470.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	5241.
6001-	7000	5615.	6342.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	8109.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	19405.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		338584.	40115.	11245.	2788.	9634.	3762.	4608.	3077.	7180.
CUMUL. TOTALS		338584.	384799.	396044.	398832.	408470.	412232.	416840.	419917.	427097.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

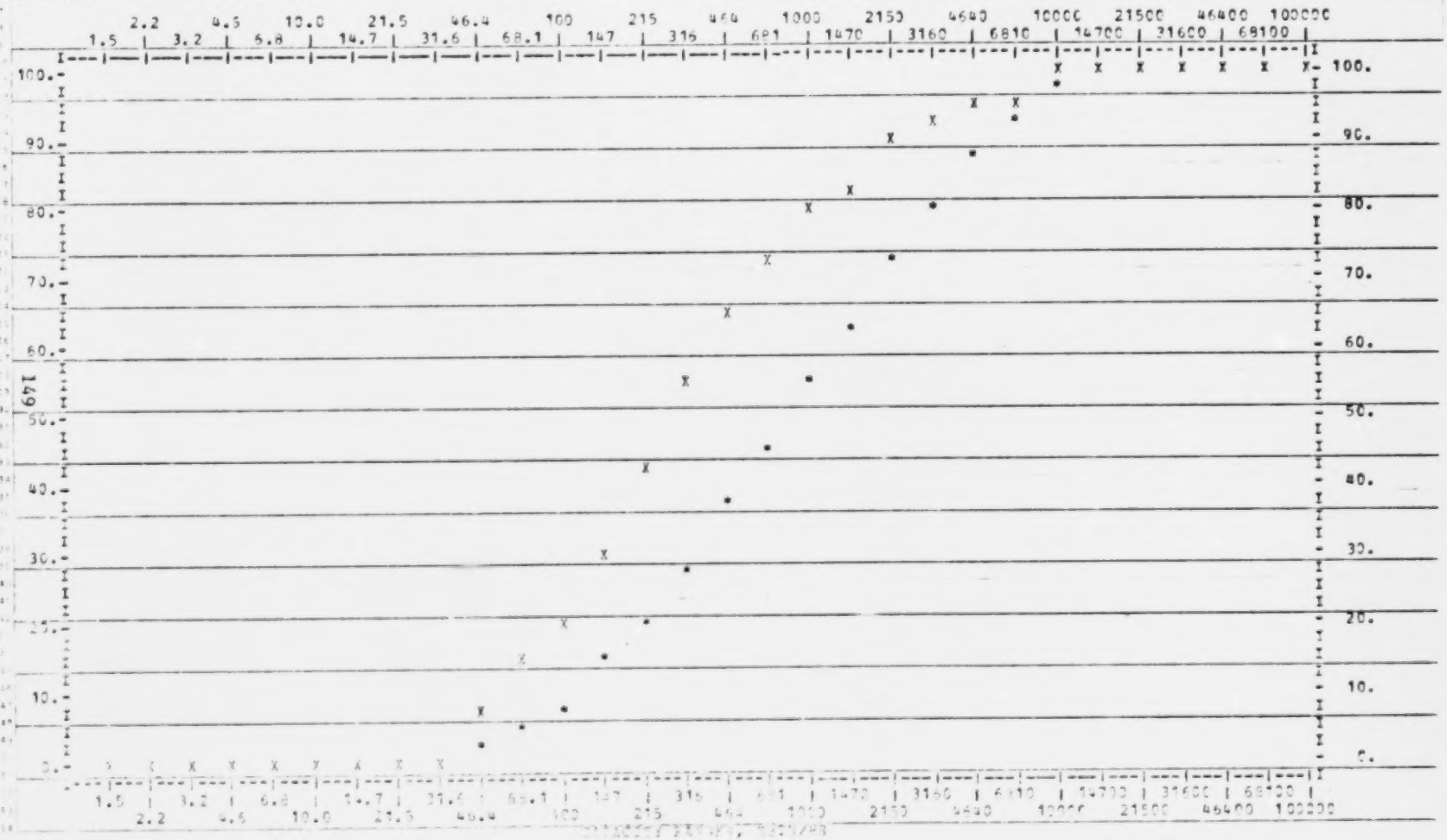
TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	7.	0.	0.	0.	0.	0.	2588.	2588.
11-	20	11.	0.	0.	0.	0.	0.	0.	4005.	6593.
21-	30	0.	0.	0.	0.	0.	0.	0.	3785.	10378.
31-	40	0.	0.	0.	0.	0.	0.	0.	5049.	15427.
41-	50	0.	0.	0.	0.	0.	0.	0.	4650.	20077.
51-	60	0.	0.	51.	53.	0.	0.	0.	5669.	25746.
61-	70	0.	70.	0.	0.	0.	0.	0.	4517.	30263.
71-	80	0.	0.	0.	0.	0.	0.	0.	5690.	35953.
81-	90	88.	0.	0.	0.	0.	0.	0.	4299.	40252.
91-	100	0.	0.	0.	0.	0.	0.	0.	5530.	45782.
101-	200	0.	0.	139.	0.	0.	0.	0.	41981.	87763.
201-	300	278.	0.	0.	0.	0.	0.	0.	36638.	124401.
301-	400	0.	318.	0.	0.	0.	375.	0.	28596.	152997.
401-	500	0.	402.	0.	0.	0.	0.	0.	22840.	175837.
501-	600	0.	0.	0.	0.	0.	0.	0.	16063.	191900.
601-	700	0.	0.	0.	0.	0.	0.	0.	15702.	207602.
701-	800	0.	773.	0.	0.	0.	0.	0.	15968.	223570.
801-	900	0.	0.	0.	0.	0.	0.	0.	11098.	234668.
901-	1000	0.	0.	0.	0.	0.	0.	0.	7766.	242434.
1001-	2000	1217.	1477.	1001.	0.	0.	0.	0.	70615.	313049.
2001-	3000	2688.	0.	0.	0.	0.	0.	0.	44291.	357340.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	17959.	375299.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	13547.	388846.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	5241.	394087.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	12957.	407044.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	407044.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	8100.	415144.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	19900.	435044.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	435044.
COLUMN TOTALS		4282.	3047.	1190.	53.	0.	375.	0.	435044.	
CUMUL. TOTALS		430379.	433426.	434616.	434669.	434669.	435044.	435044.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

CAPACITY RANGES, MBTU/HR



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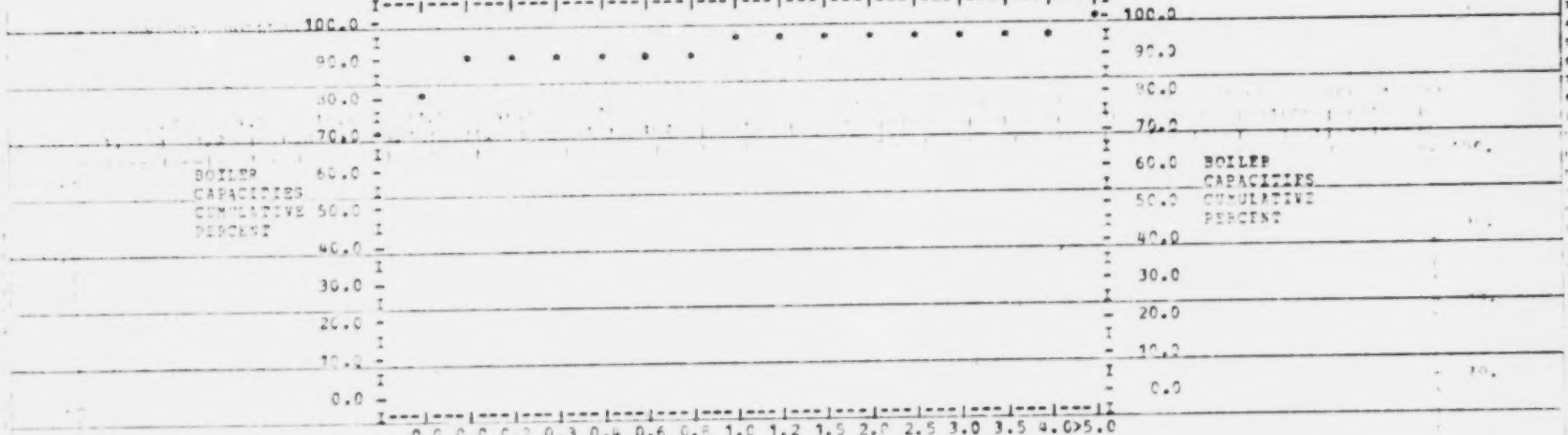
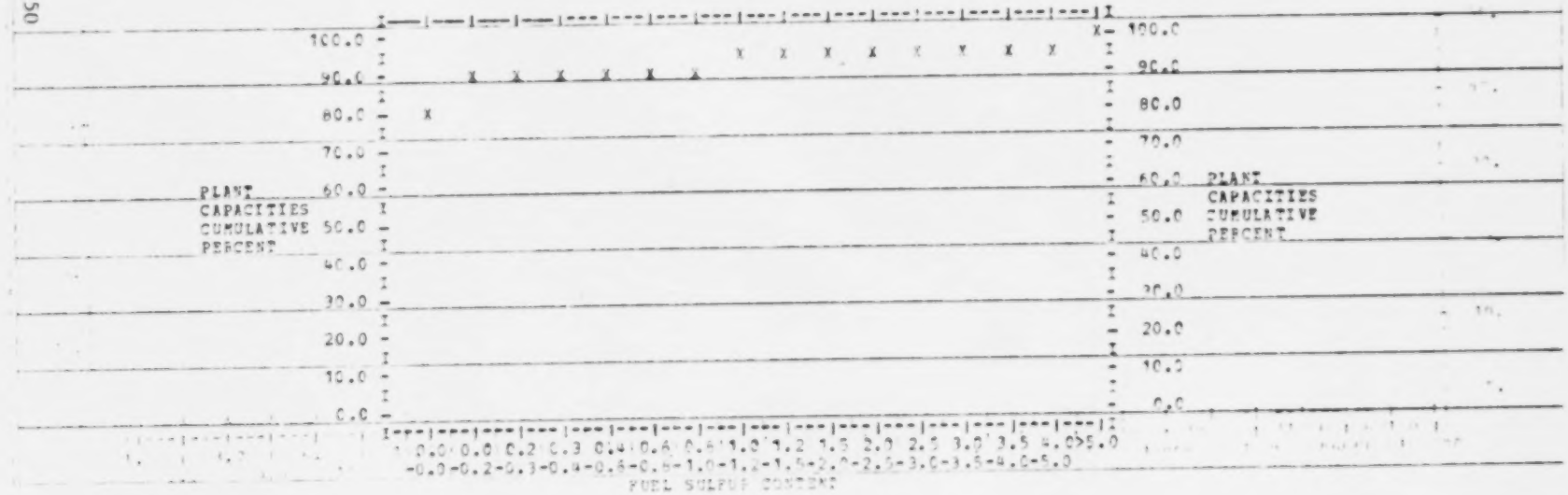
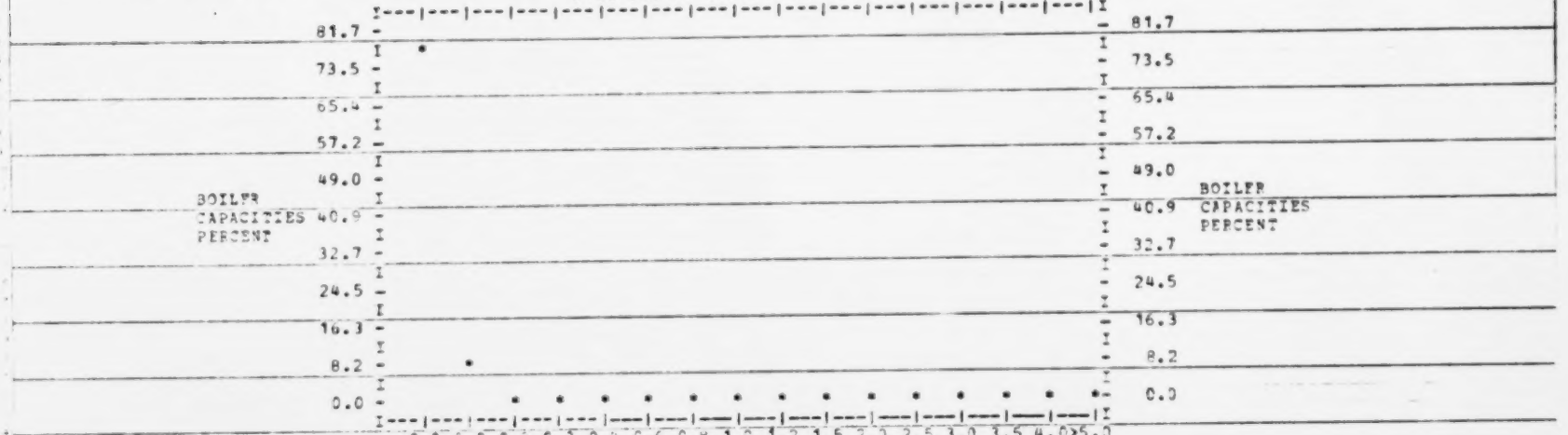
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS

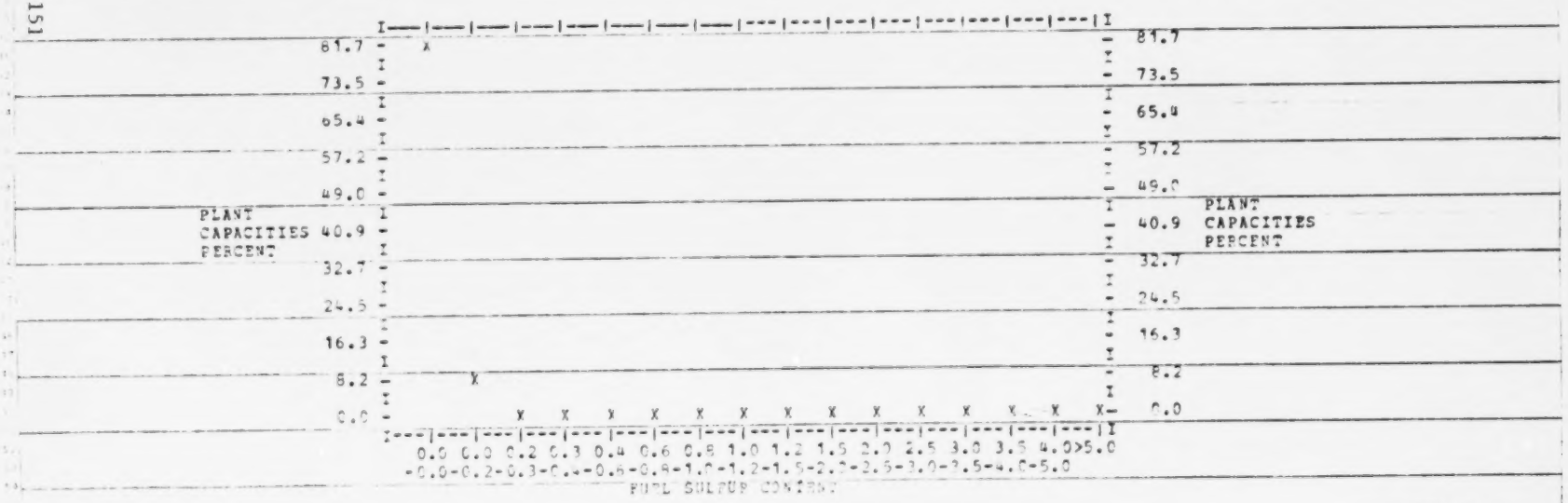




BOILER CAPACITIES (ALL DATA) = 4350**.
PLANT CAPACITIES (ALL DATA) = 4350**.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	45.	0.	0.	9.	0.	63.	0.	0.
11-	20	0.	19.	0.	2.	7.	0.	18.	11.	0.
21-	30	0.	1.	1.	4.	0.	0.	23.	0.	5.
31-	40	0.	95.	1.	0.	54.	0.	42.	24.	54.
41-	50	0.	120.	0.	0.	292.	5.	12.	0.	33.
51-	60	0.	213.	19.	0.	282.	0.	41.	0.	366.
61-	70	0.	242.	0.	0.	1.	5.	0.	0.	87.
71-	80	0.	34.	82.	0.	85.	58.	27.	32.	0.
81-	90	0.	42.	0.	0.	24.	0.	60.	0.	0.
91-	100	0.	10.	0.	0.	80.	0.	0.	2.	157.
101-	200	0.	183.	120.	0.	165.	17.	107.	363.	300.
201-	300	0.	37.	47.	0.	36.	43.	27.	353.	1.
301-	400	0.	104.	44.	0.	49.	0.	12.	0.	93.
401-	500	0.	381.	0.	0.	0.	37.	0.	0.	149.
501-	600	0.	0.	0.	0.	0.	0.	36.	0.	0.
601-	700	0.	1.	14.	0.	0.	0.	57.	0.	0.
701-	800	0.	0.	0.	0.	0.	0.	0.	0.	124.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	54.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	237.
2001-	3000	0.	0.	0.	0.	211.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	1527.	328.	6.	1369.	165.	524.	784.	1605.
CUMUL. TOTALS		0.	1527.	1855.	1861.	3230.	3395.	3919.	4703.	6308.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	2345.	0.	9.	0.	0.	0.	2470.	2470.
11-	20	31.	0.	0.	15.	0.	0.	0.	102.	2572.
21-	30	0.	0.	0.	26.	0.	0.	0.	60.	2632.
31-	40	0.	0.	0.	0.	0.	63.	0.	333.	2965.
41-	50	0.	0.	0.	0.	0.	0.	0.	470.	3435.
51-	60	0.	0.	3.	0.	0.	0.	0.	923.	4359.
61-	70	14.	77.	0.	0.	0.	0.	0.	426.	4784.
71-	80	0.	0.	0.	0.	0.	2833.	0.	3150.	7935.
81-	90	3.	0.	0.	0.	0.	0.	0.	128.	8063.
91-	100	0.	0.	0.	0.	0.	0.	0.	249.	8312.
101-	200	198.	155.	0.	0.	0.	8499.	304.	10411.	18723.
201-	300	17.	0.	0.	0.	129.	0.	0.	690.	19412.
301-	400	0.	52.	0.	0.	0.	0.	0.	374.	19786.
401-	500	33.	0.	0.	0.	0.	0.	0.	600.	20386.
501-	600	56.	0.	0.	0.	126.	0.	0.	219.	20605.
601-	700	413.	0.	0.	0.	0.	0.	0.	484.	21089.
701-	800	0.	0.	0.	0.	0.	0.	0.	125.	21214.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	21214.
901-	1000	0.	0.	0.	0.	0.	0.	0.	54.	21268.
1001-	2000	447575.	1.	0.	0.	0.	0.	0.	447814.	469082.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	211.	469293.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
COLUMN TOTALS		448341.	2630.	11.	50.	255.	11395.	304.	469293.	
CUMUL. TOTALS		448648.	457279.	457290.	457339.	457594.	468989.	469293.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MILLION BTU/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	5.	0.	0.	0.	0.	62.	0.	0.
1-	10	0.	16.	0.	0.	0.	0.	0.	0.	0.
11-	20	0.	2.	0.	1.	0.	0.	0.	0.	0.
21-	30	0.	2.	0.	0.	0.	0.	2.	0.	0.
31-	40	0.	1.	0.	0.	11.	0.	0.	0.	0.
41-	50	0.	1.	0.	0.	0.	0.	0.	0.	0.
51-	60	0.	2.	0.	0.	0.	0.	0.	0.	0.
61-	70	0.	1.	0.	0.	0.	0.	0.	0.	0.
71-	80	0.	1.	2.	0.	0.	0.	20.	0.	39.
81-	90	0.	0.	0.	0.	24.	0.	8.	0.	0.
91-	100	0.	1.	0.	0.	11.	0.	0.	0.	0.
101-	200	0.	69.	0.	0.	435.	47.	35.	0.	440.
201-	300	0.	11.	0.	0.	0.	10.	0.	304.	0.
301-	400	0.	4.	44.	0.	347.	0.	0.	0.	43.
401-	500	0.	74.	0.	0.	0.	0.	0.	0.	444.
501-	600	0.	28.	0.	0.	0.	0.	0.	106.	0.
601-	700	0.	0.	14.	0.	0.	0.	0.	35.	0.
701-	800	0.	1.	0.	0.	35.	0.	70.	0.	172.
801-	900	0.	40.	0.	0.	0.	0.	84.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	243.	111.	0.	2.	0.	0.	265.	0.
2001-	3000	0.	817.	0.	115.	392.	3966.	520.	0.	0.
3001-	4000	0.	0.	357.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	100.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	861.
6001-	7000	0.	424.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	1828.	636.	115.	1210.	4050.	800.	710.	1324.
CUMUL. TOTALS		0.	1828.	2464.	2579.	3789.	7839.	8639.	9349.	10673.

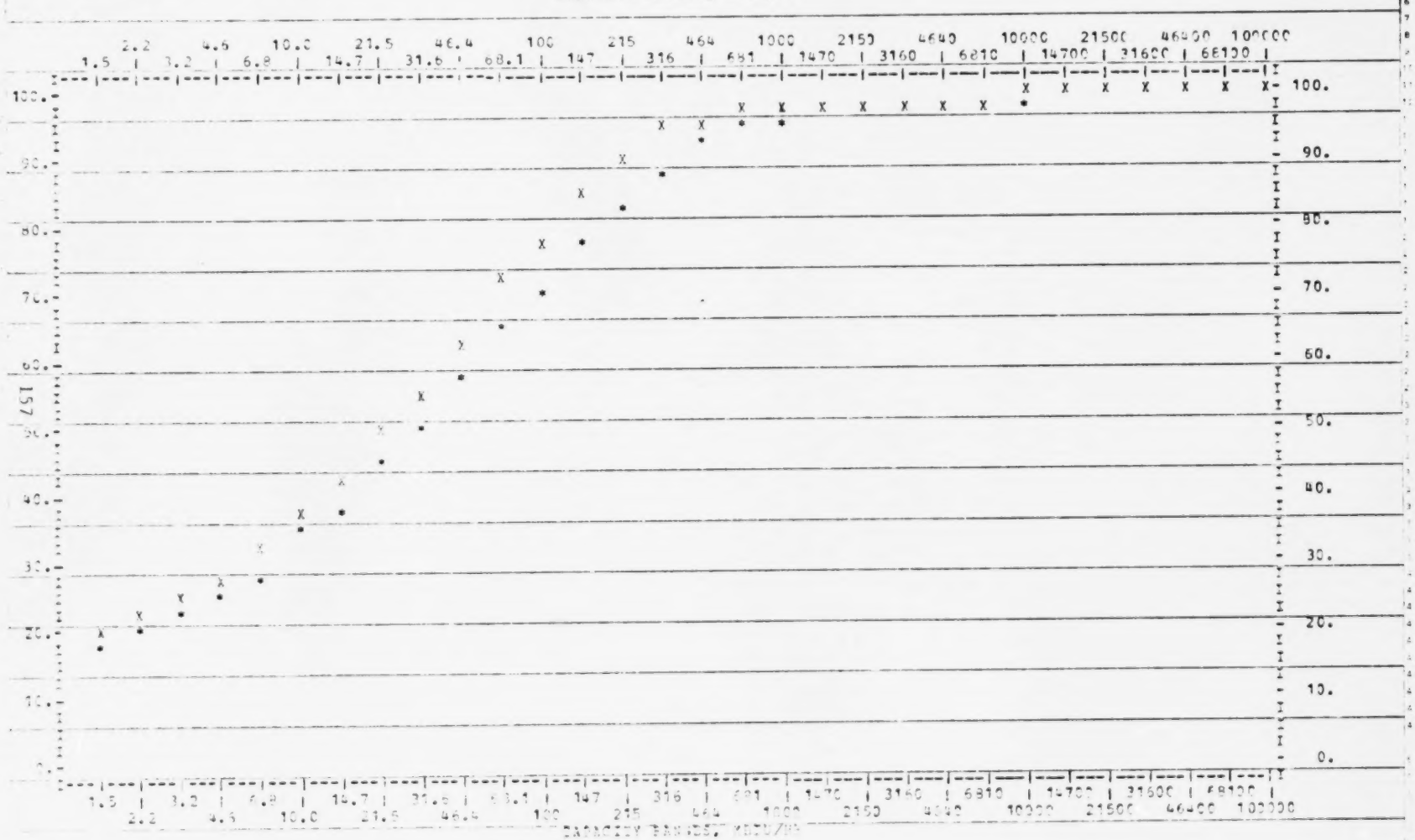
. BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	68.	68.
1-	10	0.	2345.	0.	0.	0.	0.	0.	2362.	2430.
11-	20	31.	0.	0.	0.	0.	0.	0.	33.	2463.
21-	30	0.	0.	0.	0.	0.	0.	0.	4.	2467.
31-	40	0.	0.	0.	0.	0.	0.	0.	13.	2480.
41-	50	0.	0.	0.	0.	0.	0.	0.	1.	2481.
51-	60	0.	0.	3.	50.	0.	0.	0.	54.	2535.
61-	70	0.	43.	0.	0.	0.	0.	0.	44.	2579.
71-	80	0.	0.	0.	0.	0.	0.	0.	63.	2642.
81-	90	3.	0.	0.	0.	0.	0.	0.	35.	2678.
91-	100	0.	0.	0.	0.	0.	0.	0.	14.	2692.
101-	200	0.	0.	8.	0.	0.	0.	0.	1035.	3726.
201-	300	35.	0.	0.	0.	0.	0.	0.	359.	4086.
301-	400	0.	52.	0.	0.	0.	11332.	0.	11872.	15958.
401-	500	0.	35.	0.	0.	0.	0.	0.	263.	16221.
501-	600	0.	0.	0.	0.	0.	0.	0.	134.	16355.
601-	700	0.	0.	0.	0.	0.	0.	0.	127.	16482.
701-	800	0.	352.	0.	0.	0.	0.	0.	632.	17114.
801-	900	0.	0.	0.	0.	0.	0.	0.	122.	17236.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	17236.
1001-	2000	443610.	1.	255.	0.	0.	0.	0.	444487.	461723.
2001-	3000	413.	0.	0.	0.	0.	0.	0.	6222.	467945.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	357.	468302.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	105.	468408.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	461.	468869.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	424.	469293.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	469293.
COLUMN TOTALS		444091.	2828.	266.	50.	0.	11332.	0.	469293.	
CUMUL. TOTALS		444091.	446919.	447185.	447235.	447235.	458567.	458567.		

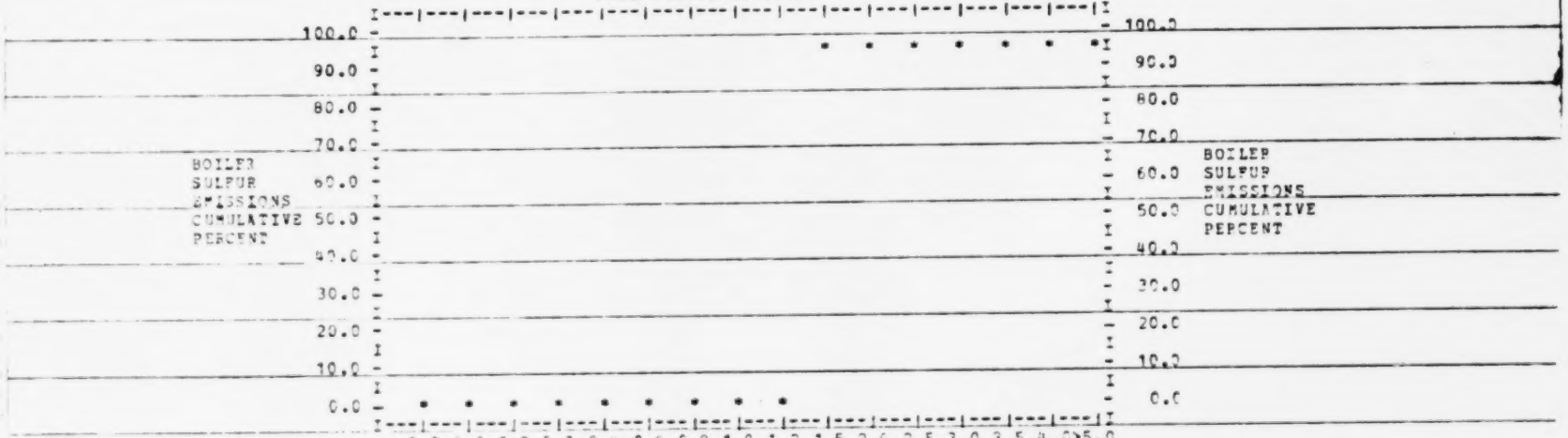
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

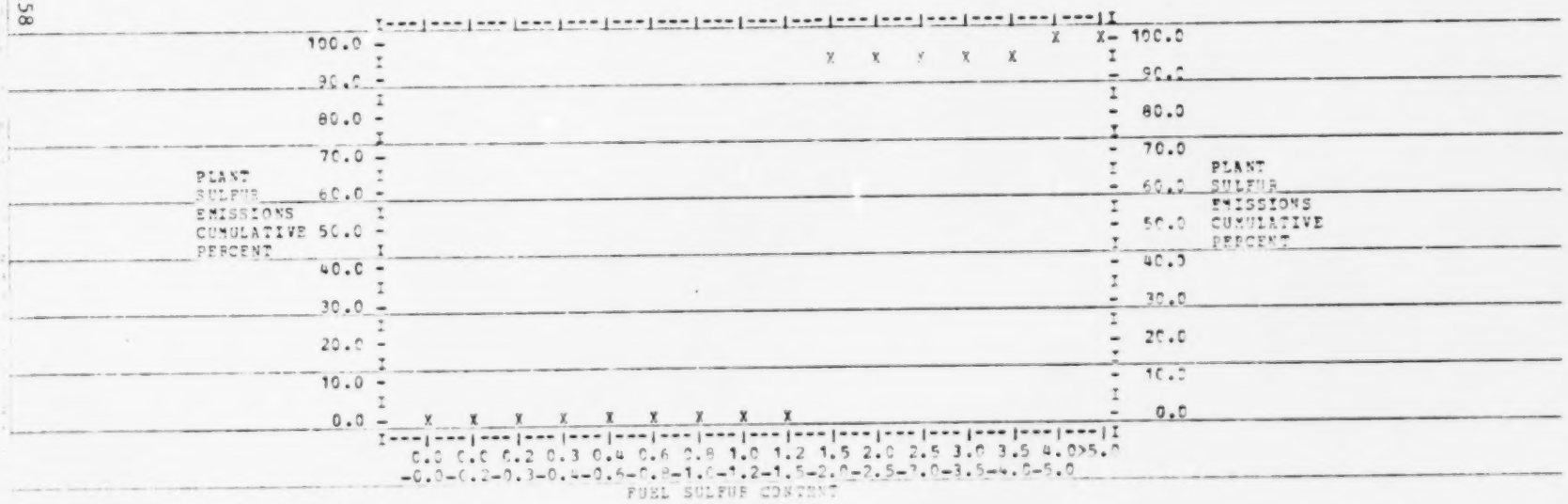
X--INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 3448
NUMBER OF PLANTS (ALL DATA) = 2701

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS

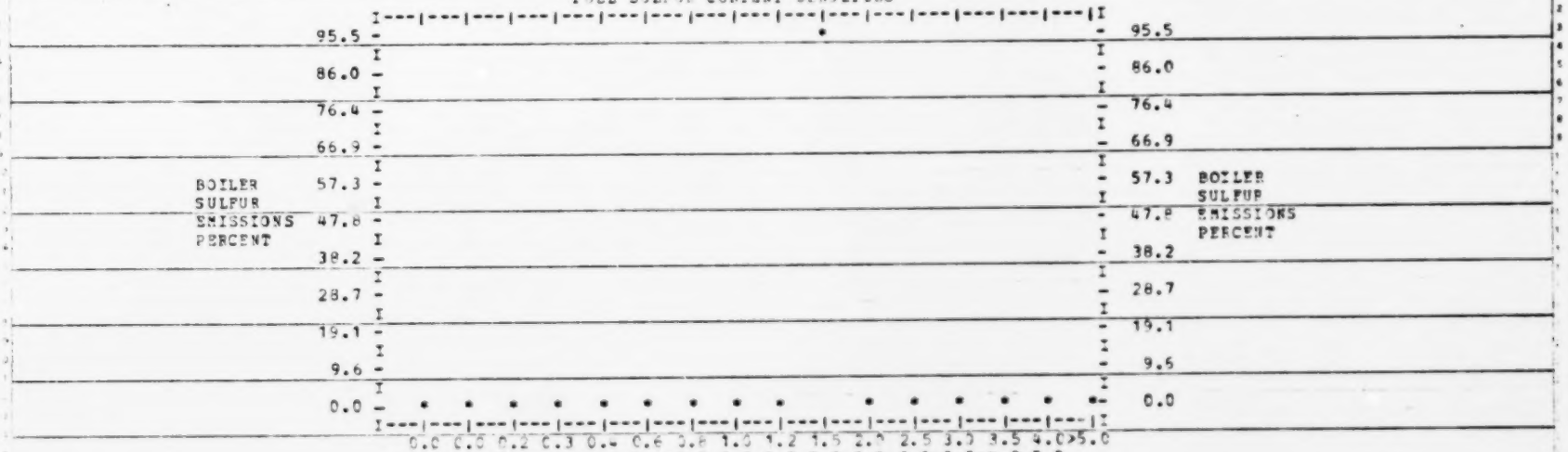


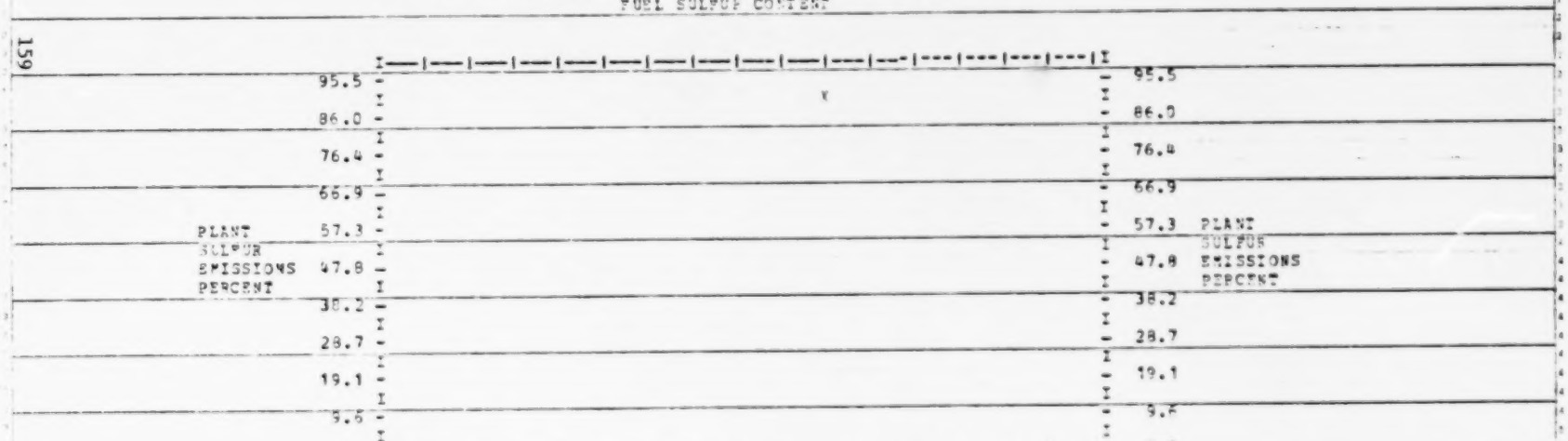


NUMBER OF BOILERS (ALL DATA) = 5446
NUMBER OF PLANTS (ALL DATA) = 2761

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS

FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 5446
NUMBER OF PLANTS (ALL DATA) = 2701

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	478961.	23669.	38.	0.	248.	0.	1439.	0.	0.
11- 20	58875.	4984.	0.	274.	164.	0.	1095.	264.	0.
21- 30	50664.	1974.	102.	800.	0.	0.	1161.	0.	184.
31- 40	35565.	10449.	163.	0.	2014.	0.	1890.	300.	1154.
41- 50	51475.	7667.	0.	0.	3488.	368.	293.	0.	377.
51- 60	38669.	11363.	1166.	0.	650.	0.	2440.	0.	4340.
61- 70	27521.	37881.	0.	0.	91.	282.	0.	0.	1518.
71- 80	145382.	5807.	4156.	0.	1655.	631.	1967.	804.	0.
81- 90	119272.	4419.	0.	0.	603.	0.	3724.	0.	0.
91- 100	25354.	6760.	0.	0.	1971.	0.	0.	79.	3660.
101- 200	4166410.	31341.	5937.	0.	4278.	1215.	6575.	6119.	6392.
201- 300	174212.	19266.	2355.	0.	1152.	1364.	2324.	9531.	0.
301- 400	98644.	15243.	1688.	0.	1902.	0.	191.	0.	2500.
401- 500	39671.	28282.	0.	0.	0.	2766.	0.	0.	3605.
501- 600	53395.	0.	0.	0.	0.	0.	581.	0.	0.
601- 700	47554.	3170.	2710.	0.	0.	0.	913.	0.	0.
701- 800	20726.	1894.	0.	0.	0.	0.	0.	0.	4505.
801- 900	306243.	1346.	0.	0.	0.	0.	0.	0.	0.
901- 1000	15520.	0.	0.	0.	1506.	0.	0.	0.	0.
1001- 2000	129580.	0.	0.	0.	0.	0.	0.	0.	8592.
2001- 3000	57969.	0.	0.	0.	18333.	0.	0.	0.	0.
3001- 4000	28123.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	68369.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	756.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	87101.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	6326602.	215301.	18314.	1074.	38285.	5625.	24593.	17097.	36831.
CUMUL. TOTALS	6326602.	6541902.	6560216.	6561289.	6599573.	6606197.	6630790.	6647887.	6684718.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, MMBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	26.	0.	121.	0.	0.	0.	504503.	504503.
11-	20	20.	0.	0.	211.	0.	0.	0.	65887.	570389.
21-	30	0.	0.	0.	368.	0.	0.	0.	55254.	625644.
31-	40	0.	0.	0.	0.	0.	933.	0.	52466.	678110.
41-	50	0.	0.	114.	0.	0.	0.	0.	63782.	741891.
51-	60	0.	0.	38.	0.	0.	0.	0.	58667.	800558.
61-	70	400.	609.	0.	0.	0.	0.	0.	68278.	868836.
71-	80	0.	0.	0.	0.	0.	6932.	0.	166434.	1035270.
81-	90	50.	0.	0.	0.	0.	0.	0.	128268.	1163538.
91-	100	0.	0.	0.	0.	0.	0.	0.	37823.	1201361.
101-	200	5337.	2330.	0.	0.	0.	18096.	794.	4254816.	5456177.
201-	300	155.	0.	0.	0.	1300.	0.	0.	211694.	5667871.
301-	400	0.	1246.	0.	0.	0.	0.	0.	121420.	5789290.
401-	500	312.	0.	0.	0.	0.	0.	0.	74439.	5863729.
501-	600	493.	0.	0.	0.	1170.	0.	0.	56208.	5919933.
601-	700	4012.	0.	0.	0.	0.	0.	0.	54359.	5974291.
701-	800	0.	0.	0.	0.	0.	0.	0.	27124.	6001415.
801-	900	0.	0.	0.	0.	0.	0.	0.	307589.	6309003.
901-	1000	0.	0.	0.	0.	0.	0.	0.	17026.	6326029.
1001-	2000	6871324.	30.	0.	0.	0.	0.	0.	7004524.	13330553.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	76302.	13406854.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	28123.	13434976.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	68369.	13503345.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	13503345.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	13503345.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	13503345.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	756.	13504101.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	87100.	13600201.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	13600201.
COLUMN TOTALS		6882271.	4237.	152.	701.	2470.	25961.	794.	13600201.	
CUMUL. TOTALS		13566789.	13571026.	13571178.	13571878.	13574348.	13600309.	13600201.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	330414.	6221.	0.	0.	0.	0.	1436.	0.	0.
1-	10	84010.	5169.	38.	0.	37.	0.	3.	0.	0.
11-	20	41062.	2054.	0.	80.	0.	0.	0.	0.	0.
21-	30	31170.	10276.	0.	0.	0.	0.	97.	0.	0.
31-	40	18766.	2565.	0.	0.	165.	0.	0.	0.	0.
41-	50	24033.	1523.	0.	0.	0.	0.	0.	0.	0.
51-	60	23782.	1639.	0.	0.	0.	0.	0.	0.	0.
61-	70	13565.	1335.	0.	0.	0.	0.	0.	0.	0.
71-	80	19838.	5487.	475.	0.	0.	0.	1797.	0.	489.
81-	90	59744.	1645.	0.	0.	803.	0.	424.	0.	0.
91-	100	22745.	4092.	265.	0.	663.	0.	0.	0.	0.
101-	200	139536.	22356.	0.	0.	2223.	2227.	769.	0.	4863.
201-	300	254963.	36760.	0.	0.	0.	596.	0.	8300.	0.
301-	400	110409.	8967.	1686.	0.	6777.	2014.	0.	0.	686.
401-	500	101657.	17582.	0.	0.	0.	0.	0.	0.	3605.
501-	600	48726.	6308.	0.	0.	0.	0.	0.	3753.	0.
601-	700	55403.	8572.	2710.	0.	0.	0.	0.	1623.	0.
701-	800	53033.	3901.	0.	0.	1874.	0.	6093.	0.	6160.
801-	900	327270.	12886.	0.	0.	0.	0.	2787.	0.	0.
901-	1000	29391.	1604.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	4045733.	31473.	8042.	0.	64.	0.	0.	13686.	0.
2001-	3000	113360.	33086.	0.	5686.	23314.	16520.	15185.	0.	0.
3001-	4000	88242.	0.	20641.	0.	0.	0.	0.	0.	0.
4001-	5000	78835.	0.	7190.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	16103.
6001-	7000	0.	24754.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	759.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	106431.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		6252991.	250276.	41048.	5766.	35921.	21362.	28592.	27363.	31906.
CUMUL. TOTALS		6252991.	6503267.	6544315.	6550081.	6586001.	6607362.	6635953.	6663316.	6695222.

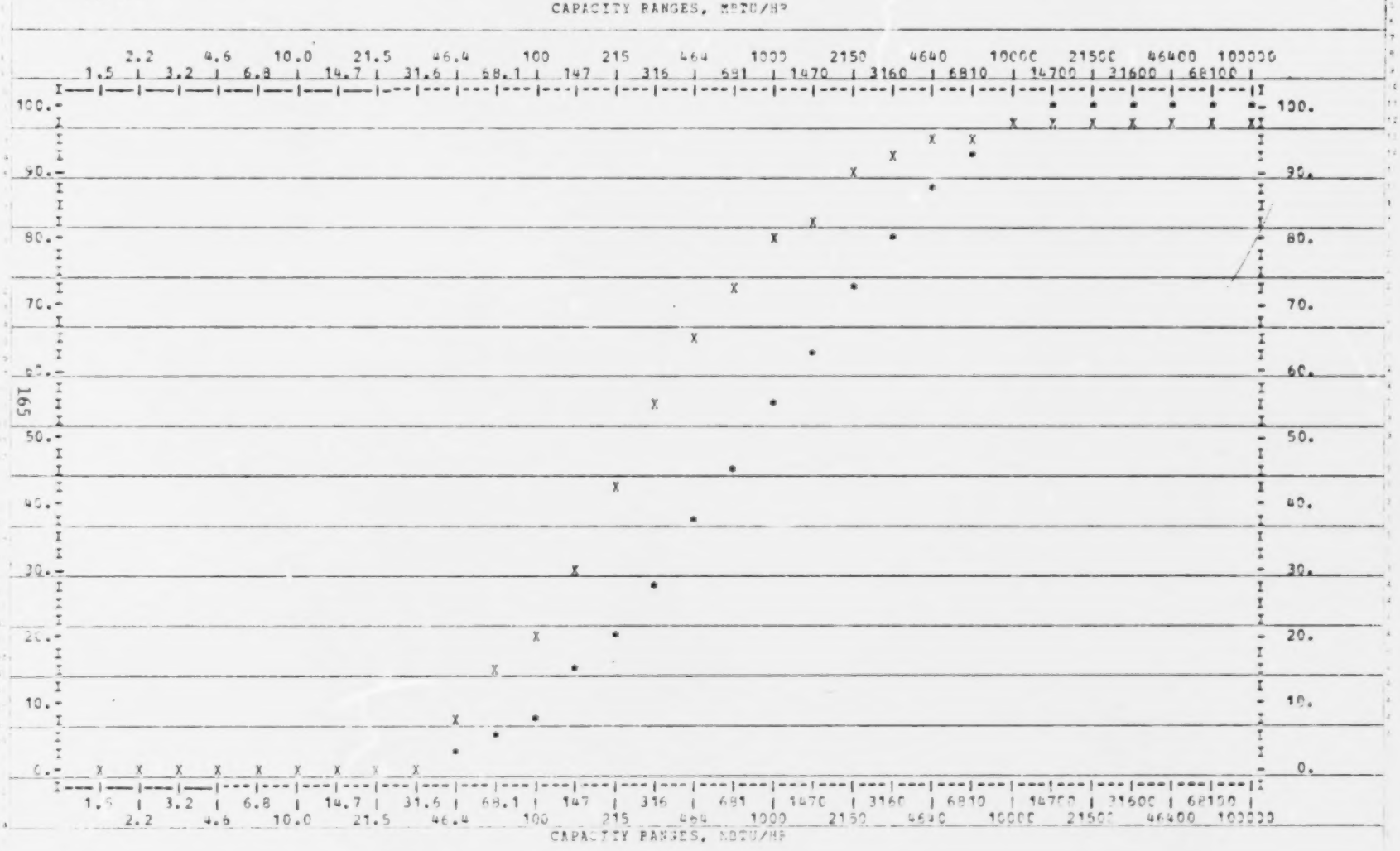
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	308071.	308071.
1-	10	0.	26.	0.	0.	0.	0.	0.	89283.	397354.
11-	20	20.	0.	0.	0.	0.	0.	0.	43216.	440570.
21-	30	0.	0.	0.	0.	0.	0.	0.	21543.	462113.
31-	40	0.	0.	0.	0.	0.	0.	0.	21496.	483609.
41-	50	0.	0.	0.	0.	0.	0.	0.	25555.	529164.
51-	60	0.	0.	38.	701.	0.	0.	0.	26159.	555323.
61-	70	0.	150.	0.	0.	0.	0.	0.	15070.	570394.
71-	80	0.	0.	0.	0.	0.	0.	0.	28085.	598479.
81-	90	50.	0.	0.	0.	0.	0.	0.	42666.	641146.
91-	100	0.	0.	0.	0.	0.	0.	0.	27765.	668911.
101-	200	0.	0.	114.	0.	0.	0.	0.	232090.	921000.
201-	300	900.	0.	0.	0.	0.	0.	0.	301524.	1222523.
301-	400	0.	1246.	0.	0.	0.	24128.	0.	156338.	1378861.
401-	500	0.	547.	0.	0.	0.	0.	0.	123390.	1502251.
501-	600	0.	0.	0.	0.	0.	0.	0.	58787.	1561038.
601-	700	0.	0.	0.	0.	0.	0.	0.	68308.	1629345.
701-	800	0.	3562.	0.	0.	0.	0.	0.	74623.	1703967.
801-	900	0.	0.	0.	0.	0.	0.	0.	342944.	2046910.
901-	1000	0.	0.	0.	0.	0.	0.	0.	30695.	2077605.
1001-	2000	6866034.	30.	345[illegible]	0.	0.	0.	0.	10968513.	13046118.
2001-	3000	4012.	0.		0.	0.	0.	0.	211164.	13257282.
3001-	4000	0.	0.		0.	0.	0.	0.	108883.	13366164.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	86024.	13452188.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	16103.	13468291.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	24754.	13493045.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	13493045.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	756.	13493801.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	106431.	13600232.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	13600232.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	13600232.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	13600232.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	13600232.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	13600232.
COLUMN TOTALS		6871014.	5561.	3607.	701.	0.	24128.	0.	13600232.	
CUMUL. TOTALS		13566236.	13571796.	13575403.	13576103.	13576103.	13600231.	13600231.		

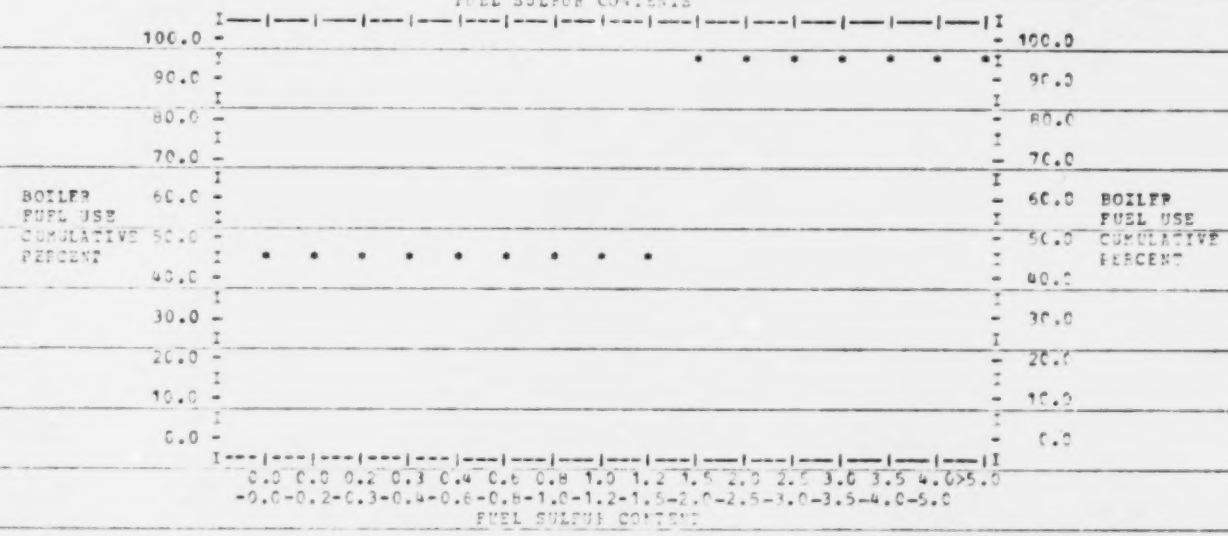
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

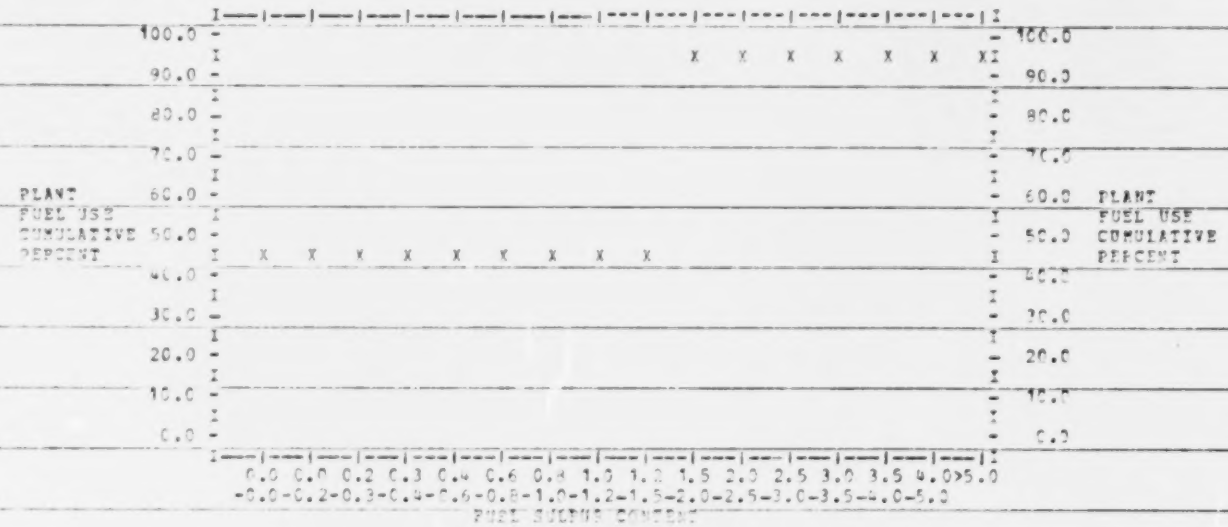
X--INDIVIDUAL BOILERS
•--PLANTS



BOILER CAPACITIES (ALL DATA) = 435044.
PLANT CAPACITIES (ALL DATA) = 435044.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS





BOILER CAPACITIES (ALL DATA) = 435044.
PLANT CAPACITIES (ALL DATA) = 435044.

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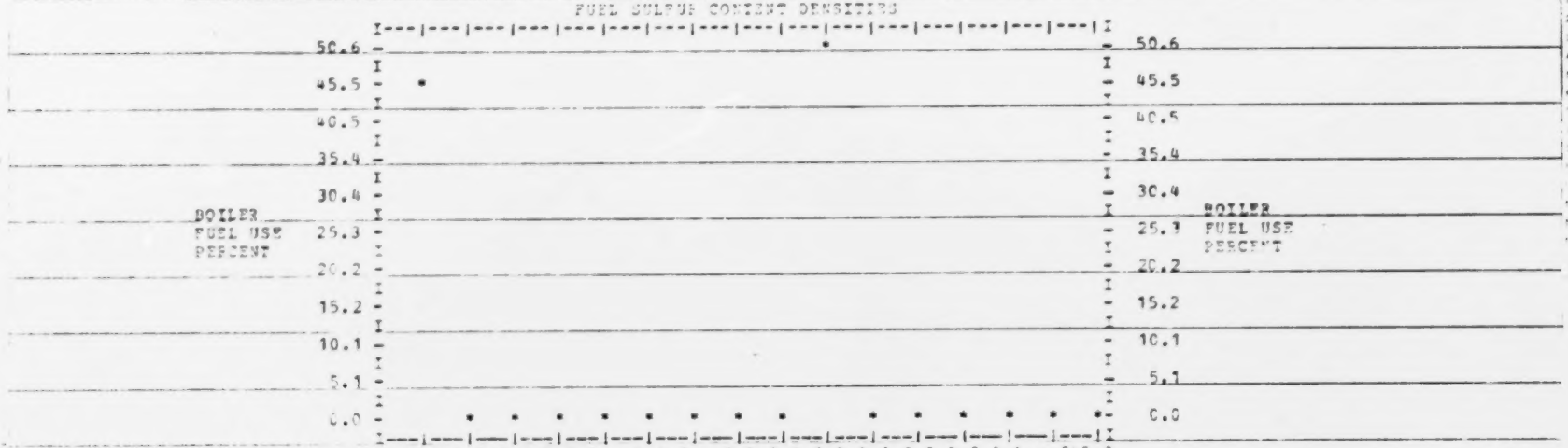
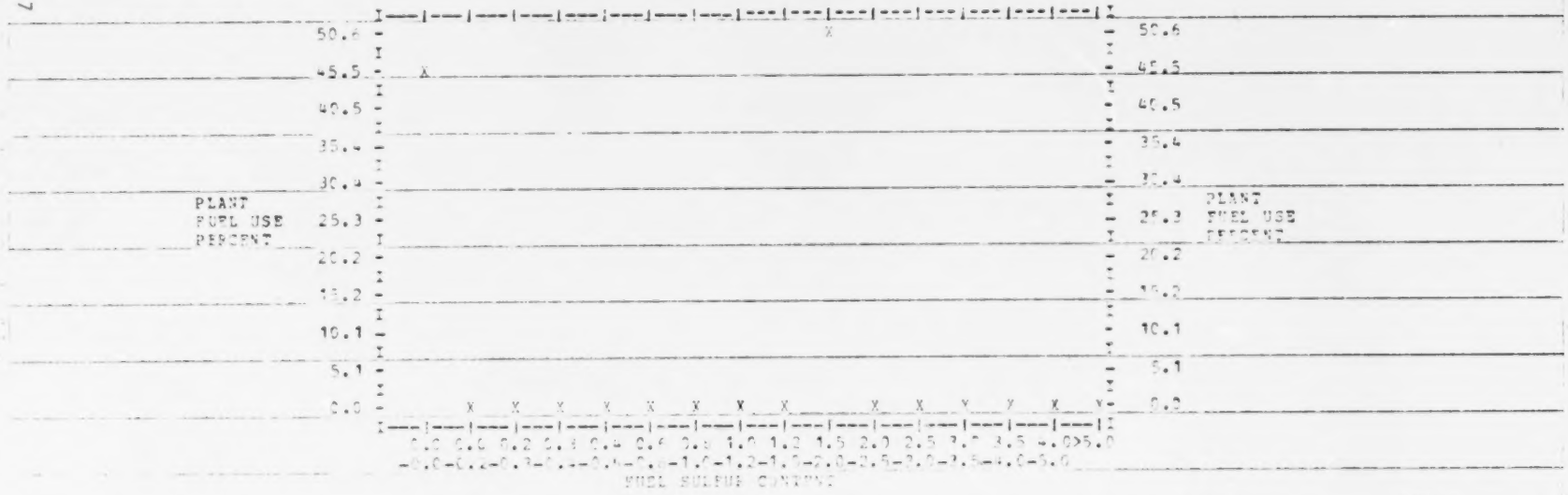
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU*S/HR	EQUAL ZERO	1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
					STACK HEIGHTS IN FEET										
EQUAL 0	267	32	116	60	45	38	18	13	11	2	6	5	5	2	0
1- 10	276	155	310	104	53	18	4	7	4	4	1	2	0	0	0
11- 20	94	36	133	51	31	23	10	4	7	5	2	1	0	0	0
21- 30	58	23	76	53	23	10	1	5	6	2	2	3	0	0	0
31- 40	45	9	58	29	21	13	4	12	8	4	3	3	0	0	0
41- 50	37	11	40	31	17	9	8	5	6	5	2	1	0	0	0
51- 60	15	4	26	26	15	11	6	7	11	6	0	0	1	0	0
61- 70	19	6	33	12	7	8	2	5	7	2	2	0	0	0	0
71- 80	16	2	18	23	11	10	7	2	8	5	3	1	1	0	0
81- 90	13	1	14	13	4	4	3	2	5	0	4	6	0	0	0
91- 100	9	1	11	16	15	6	4	4	6	5	10	2	1	0	0
101- 200	70	6	48	58	50	24	13	19	29	23	17	29	2	1	0
201- 300	30	2	17	20	27	14	13	16	14	12	8	19	2	2	0
301- 400	7	0	8	15	12	7	5	6	10	6	2	6	3	0	0
401- 500	3	0	4	5	4	8	5	3	5	3	1	6	1	0	0
501- 600	5	0	0	2	2	5	2	4	1	3	0	3	1	0	0
601- 700	3	1	0	0	4	4	6	1	1	1	1	1	0	0	0
701- 800	6	0	1	2	0	1	7	1	2	1	3	1	0	0	0
801- 900	0	0	0	1	1	0	1	3	3	4	0	3	0	0	0
901- 1000	0	0	0	0	1	2	2	1	0	0	1	1	0	0	0
1001- 2000	7	1	1	1	3	4	4	3	5	5	3	4	1	0	0
2001- 3000	3	1	0	0	1	0	0	1	5	1	0	1	0	0	0
3001- 4000	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0
4001- 5000	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
5001- 6000	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
9001- 10000	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	986	298	916	553	347	225	129	129	154	100	71	97	19	7	1
RUNNING TOTALS	0	298	1214	1768	2115	2340	2469	2598	2752	2852	2923	3020	3039	3046	3047

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET 401- 450	451- 500	501- 550	551- 600	601- 650	651- 700	701- 750	751- 800	801- 850	851- 900	901- 950	951- 1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	642	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	936	938
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	402	1340
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	268	1608
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	209	1817
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	173	1990
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	135	2125
61- 70	0	0	1	0	0	0	0	0	0	0	0	0	0	103	2228
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	109	2337
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	69	2406
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	90	2496
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	398	2894
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	196	3090
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	88	3178
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	48	3226
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	28	3254
601- 700	0	0	0	0	0	0	0	0	0	0	0	0	0	23	3277
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	25	3302
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	16	3318
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	8	3326
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	42	3368
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	13	3381
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3384
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3386
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3387
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3387
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3387
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3388
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3389
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3389
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3389
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3389
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3389
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3389
COLUMN TOTALS	0	0	1	0	0	0	0	0	0	0	0	0	0	4031	3389
CUMULATIVE TOTALS	3044	3044	3045	3045	3045	3045	3045	3045	3045	3045	3045	3045			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL GAS-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS: EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	2.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.34	1.47	1.27	1.21	1.28	1.31	1.24	1.40	1.21
11-	20	1.91	1.97	1.79	1.74	1.53	1.47	1.80	1.64	1.80
21-	30	1.73	1.88	2.07	2.09	1.33	2.38	2.00	1.50	1.50
31-	40	4.00	1.63	2.15	1.74	1.86	1.60	1.83	1.60	3.00
41-	50	1.57	2.00	1.79	2.47	1.13	2.00	1.71	2.33	2.17
51-	60	2.70	1.50	4.00	2.73	2.20	2.27	2.20	2.40	2.60
61-	70	5.00	2.08	2.54	1.75	3.14	2.25	2.00	1.67	1.00
71-	80	3.00	3.22	2.67	1.75	2.50	2.22	1.67	1.71	2.60
81-	90	4.00	2.38	2.25	3.33	2.60	2.00	2.71	0.0	0.0
91-	100	14.00	1.75	2.29	4.56	2.67	2.33	2.50	2.60	0.0
101-	200	2.36	2.51	2.47	2.74	3.36	3.00	3.09	2.45	2.65
201-	300	3.55	2.60	3.36	3.29	3.46	2.80	3.92	3.82	2.71
301-	400	3.00	3.50	2.73	5.38	3.33	2.14	1.50	3.40	4.40
401-	500	2.00	3.00	4.20	3.22	5.33	2.00	3.00	4.00	3.00
501-	600	4.00	8.75	3.50	3.00	4.00	6.67	2.67	3.33	4.50
601-	700	5.00	1.00	3.00	4.00	3.33	4.50	2.50	5.67	3.00
701-	800	1.00	5.33	7.00	6.25	0.0	0.0	10.00	0.0	1.67
801-	900	0.0	4.00	2.50	1.00	4.00	4.00	7.50	7.00	0.0
901-	1000	0.0	5.00	4.00	0.0	0.0	0.0	7.00	0.0	9.00
1001-	2000	3.50	3.56	6.40	4.17	3.50	8.00	13.75	0.0	4.67
2001-	3000	0.0	0.0	6.50	6.00	10.00	26.00	2.50	5.50	14.50
3001-	4000	0.0	0.0	0.0	0.0	3.00	0.0	17.00	7.00	0.0
4001-	5000	0.0	0.0	8.00	10.00	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	9.00	0.0	0.0	0.0	0.0
6001-	7000	0.00	0.0	0.0	0.0	0.0	30.00	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	8.00	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		2.53	2.20	2.25	2.39	2.58	2.51	2.77	2.56	2.73
CUMUL. TOTALS		0.0	2.20	2.23	2.28	2.34	2.37	2.41	2.42	2.43

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL GAS-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.0	0.0	2.68	0.0	1.91	2.30	0.0	0.0
1- 10	1.07	1.19	1.29	0.0	1.77	1.39	1.29	1.39
11- 20	1.00	1.89	1.77	0.0	1.75	1.77	1.45	1.51
21- 30	1.33	2.00	1.90	0.0	2.44	1.97	1.52	1.58
31- 40	0.0	2.08	1.92	0.0	1.58	1.89	1.56	1.62
41- 50	6.67	1.67	2.09	0.0	1.55	2.03	1.62	1.65
51- 60	2.25	2.25	2.54	0.0	3.38	2.60	1.70	1.72
61- 70	3.00	1.67	2.42	0.0	1.00	2.38	1.74	1.76
71- 80	1.00	3.00	2.39	0.0	2.45	2.40	1.77	1.79
81- 90	5.00	3.33	2.80	0.0	3.67	2.90	1.81	1.83
91- 100	2.33	1.00	2.85	0.0	2.60	2.82	1.85	1.86
101- 200	2.00	2.78	2.78	0.0	3.83	2.87	2.00	2.02
201- 300	1.86	3.17	3.10	0.0	4.71	3.18	2.09	2.10
301- 400	5.00	3.00	3.48	0.0	3.00	3.44	2.14	2.15
401- 500	3.00	2.50	3.20	0.0	5.60	3.43	2.17	2.19
501- 600	3.50	1.00	4.41	0.0	0.0	4.41	2.20	2.21
601- 700	3.50	1.50	3.58	0.0	0.0	3.58	2.22	2.23
701- 800	5.00	6.00	5.30	0.0	9.00	5.48	2.25	2.25
801- 900	0.0	1.00	4.09	0.0	2.50	3.85	2.26	2.27
901- 1000	0.0	1.50	4.63	0.0	0.0	4.63	2.27	2.28
1001- 2000	4.67	7.17	5.83	0.0	6.25	5.68	2.35	2.35
2001- 3000	24.00	1.00	9.24	0.0	1.00	8.78	2.41	2.40
3001- 4000	14.00	3.00	6.80	0.0	0.0	6.80	2.42	2.42
4001- 5000	0.0	0.0	9.00	0.0	1.00	6.33	2.43	2.42
5001- 6000	0.0	0.0	9.00	0.0	0.0	9.00	2.43	2.42
6001- 7000	0.0	0.0	19.50	0.0	0.0	19.50	2.45	2.44
7001- 8000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
8001- 9000	0.0	0.0	1.00	0.0	0.0	1.00	2.45	2.44
9001- 10000	0.0	0.0	8.00	0.0	1.00	4.50	2.45	2.44
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	2.45	2.44
COLUMN TOTALS	3.09	2.45	2.47	0.0	2.18	2.04		
CUMUL. TOTALS	2.46	2.46	2.46	2.46	2.41			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS								
		EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	144	0	0	0	0	0	0	0	0
1-	10	140	227	204	194	106	105	52	46	32
11-	20	66	187	118	115	82	48	36	29	23
21-	30	51	144	90	101	30	46	28	19	8
31-	40	15	99	57	45	40	31	12	5	8
41-	50	24	102	80	28	24	13	9	10	12
51-	60	24	61	37	29	16	6	10	4	3
61-	70	6	57	20	19	8	13	5	5	10
71-	80	11	63	27	30	9	9	5	10	8
81-	90	6	73	17	15	4	12	7	6	0
91-	100	17	31	15	13	8	8	1	6	4
101-	200	31	233	84	50	36	42	18	23	38
201-	300	14	75	22	19	11	11	10	8	10
301-	400	3	29	18	8	3	2	8	7	5
401-	500	1	18	5	2	0	3	1	1	0
501-	600	3	17	0	3	3	1	1	0	0
601-	700	0	3	1	1	1	0	3	5	0
701-	800	3	2	0	0	1	0	3	1	0
801-	900	0	2	3	0	0	0	0	0	0
901-	1000	0	1	1	0	0	0	0	0	0
1001-	2000	0	14	1	0	0	1	0	1	1
2001-	3000	0	2	0	0	0	0	0	0	0
3001-	4000	0	1	0	0	0	0	2	0	0
4001-	5000	0	1	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-100000		0	0	0	0	0	0	0	0	0
COLUMN TOTALS		574	1443	755	672	396	351	210	186	162
RUNNING TOTALS		0	1443	2198	2870	3266	3617	3827	4013	4175

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU*S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	144	0	186	330	0	0
1-	10	29	20	1155	0	115	1270	1155	1270
11-	20	17	14	766	0	35	801	1921	2071
21-	30	15	7	539	0	20	559	2460	2630
31-	40	4	6	322	0	28	350	2782	2980
41-	50	7	5	267	0	9	276	3049	3256
51-	60	3	4	148	0	8	207	3248	3463
61-	70	3	3	150	0	3	153	3398	3616
71-	80	1	4	177	0	4	181	3575	3797
81-	90	2	1	143	0	2	145	3718	3942
91-	100	2	5	110	0	11	121	3828	4063
101-	200	12	13	544	0	14	598	4412	4661
201-	300	5	5	190	0	6	196	4602	4857
301-	400	2	0	72	0	2	94	4694	4951
401-	500	3	0	34	0	2	36	4728	4987
501-	600	2	0	30	0	0	30	4758	5017
601-	700	0	0	14	0	2	16	4772	5033
701-	800	0	0	11	0	0	11	4783	5044
801-	900	0	0	5	0	0	5	4788	5049
901-	1000	0	0	2	0	0	2	4790	5051
1001-	2000	1	0	19	0	0	19	4809	5070
2001-	3000	0	0	2	0	0	2	4811	5072
3001-	4000	0	0	1	0	0	1	4812	5073
4001-	5000	0	0	1	0	0	1	4813	5074
5001-	6000	0	0	0	0	0	0	4813	5074
6001-	7000	0	0	0	0	0	0	4813	5074
7001-	8000	0	0	0	0	0	0	4813	5074
8001-	9000	0	0	0	0	0	0	4813	5074
9001-	10000	0	0	0	0	0	0	4813	5074
10001-100000		0	0	0	0	0	0	4813	5074
COLUMN TOTALS		106	95	4397	0	417	5404		
CUMUL. TOTALS		4283	4378	4378	4378	4825			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS								
		EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	68	0	0	0	0	0	0	0	0
1-	10	37	145	96	106	50	49	33	21	14
11-	20	19	65	54	48	47	20	18	14	8
21-	30	12	48	46	58	19	24	15	12	2
31-	40	12	49	42	32	23	19	5	6	3
41-	50	5	42	23	24	12	14	9	5	3
51-	60	8	41	14	27	15	5	3	4	4
61-	70	3	32	13	5	9	8	5	1	2
71-	80	6	28	11	14	6	4	5	1	2
81-	90	2	14	15	8	6	1	4	3	0
91-	100	6	18	10	8	5	2	0	0	1
101-	200	19	124	54	40	29	17	10	11	4
201-	300	16	52	24	18	11	15	6	4	5
301-	400	4	42	7	11	4	7	1	4	3
401-	500	4	20	6	5	3	3	3	1	4
501-	600	2	16	8	3	3	1	1	3	0
601-	700	2	12	2	0	1	1	2	0	0
701-	800	0	7	3	2	1	1	0	3	0
801-	900	1	4	2	0	2	0	0	0	1
901-	1000	0	2	0	1	0	0	2	0	0
1001-	2000	3	15	7	0	1	4	7	9	2
2001-	3000	0	3	2	2	0	0	1	0	0
3001-	4000	0	2	0	1	0	0	0	0	0
4001-	5000	0	1	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	1	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	1	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		229	783	439	413	244	195	130	112	58
CUMUL. TOTALS		0	783	1222	1635	1883	2078	2208	2310	2368

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL OIL-FIRED BOILERS

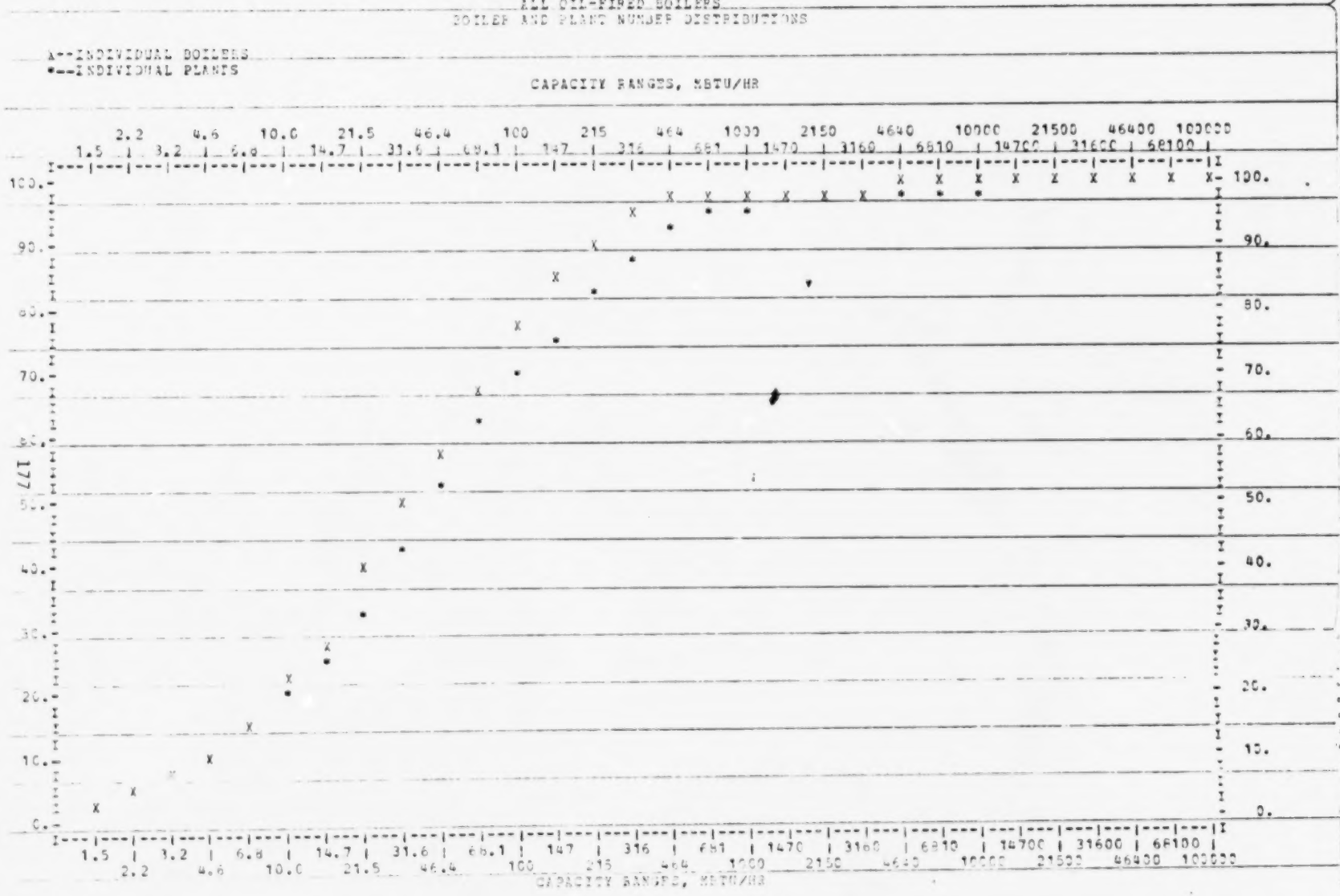
TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

PLANT LOAD FACTORS

CAPACITY MBTU*S/HR		0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	68	0	136	204	0	0
1-	10	14	5	570	0	51	621	570	621
11-	20	11	9	313	0	11	324	883	945
21-	30	5	11	252	0	6	258	1135	1203
31-	40	3	4	198	0	6	204	1333	1407
41-	50	2	2	141	0	5	146	1474	1553
51-	60	3	0	124	0	5	129	1598	1682
61-	70	1	1	80	0	2	82	1678	1764
71-	80	1	3	81	0	6	87	1759	1851
81-	90	0	0	53	0	1	54	1812	1905
91-	100	3	2	55	0	5	60	1867	1965
101-	200	5	6	319	0	15	334	2186	2299
201-	300	3	0	154	0	4	158	2340	2457
301-	400	2	1	86	0	3	89	2426	2546
401-	500	1	0	50	0	1	51	2476	2597
501-	600	3	2	42	0	0	42	2518	2639
601-	700	0	1	21	0	1	22	2539	2661
701-	800	1	0	18	0	3	21	2557	2682
801-	900	0	0	10	0	0	10	2567	2692
901-	1000	0	0	5	0	0	5	2572	2697
1001-	2000	2	1	51	0	0	51	2623	2748
2001-	3000	0	0	8	0	0	8	2631	2756
3001-	4000	0	0	3	0	0	3	2634	2759
4001-	5000	0	0	1	0	0	1	2635	2760
5001-	6000	0	0	1	0	0	1	2636	2761
6001-	7000	0	0	0	0	0	0	2636	2761
7001-	8000	0	0	0	0	0	0	2636	2761
8001-	9000	0	0	0	0	0	0	2636	2761
9001-	10000	0	0	1	0	0	1	2637	2762
10001-	20000	0	0	0	0	0	0	2637	2762
20001-	30000	0	0	0	0	0	0	2637	2762
30001-	40000	0	0	0	0	0	0	2637	2762
40001-	50000	0	0	0	0	0	0	2637	2762
50001-	100000	0	0	0	0	0	0	2637	2762
COLUMN TOTALS		60	48	2705	0	261	2966		
CUMCOL. TOTALS		2428	2476	2476	2476	2737			

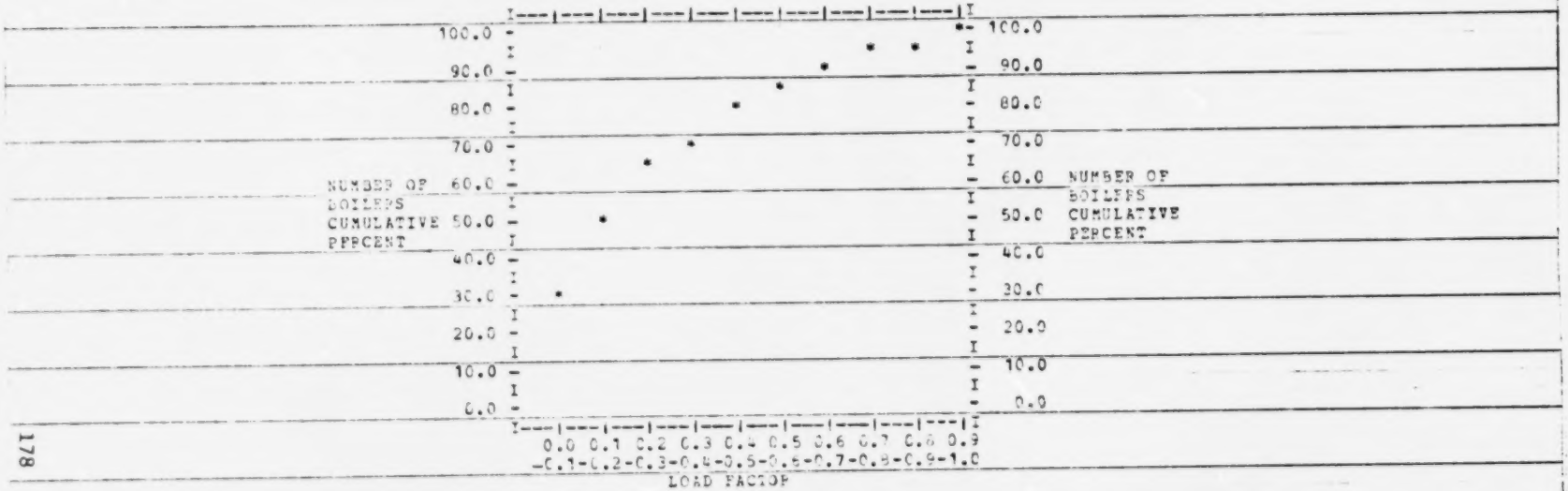
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

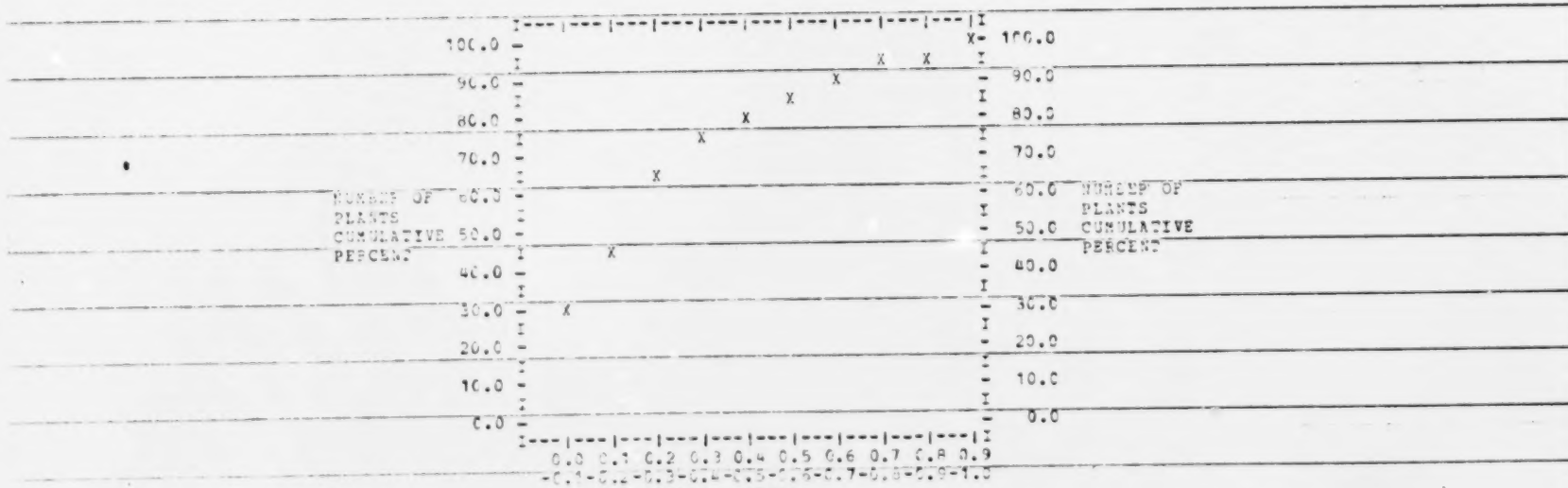
X---INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 5404 NUMBER OF BOILERS (RELIABLE DATA) = 4378
NUMBER OF PLANTS (ALL DATA) = 2966 NUMBER OF PLANTS (RELIABLE DATA) = 2476

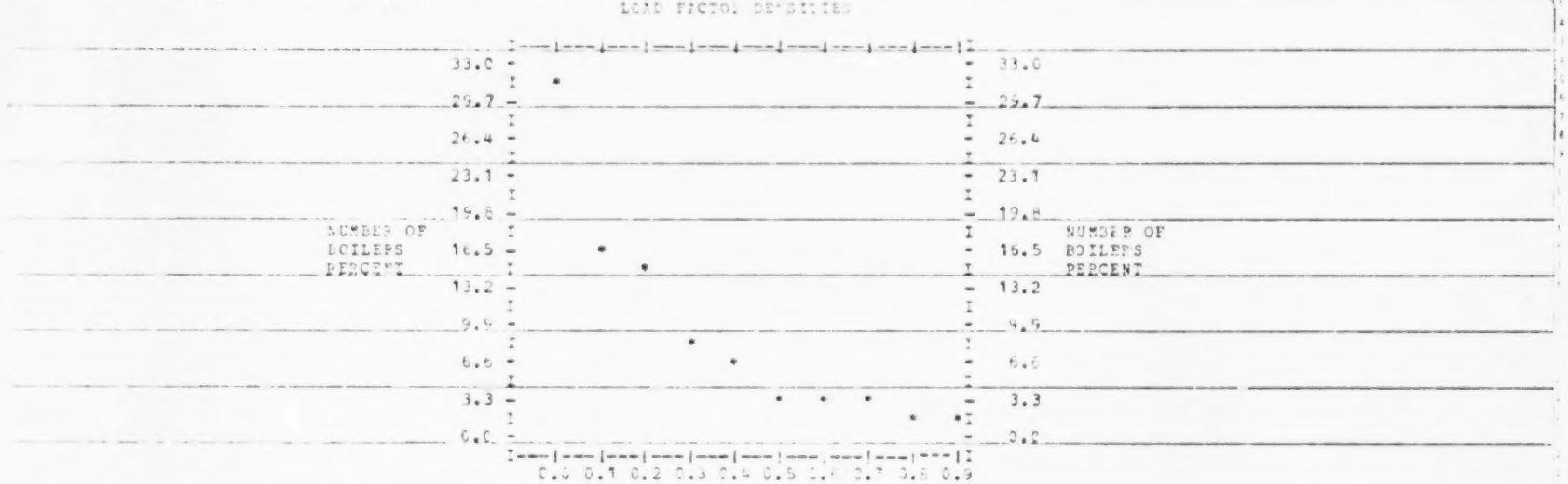
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTORS

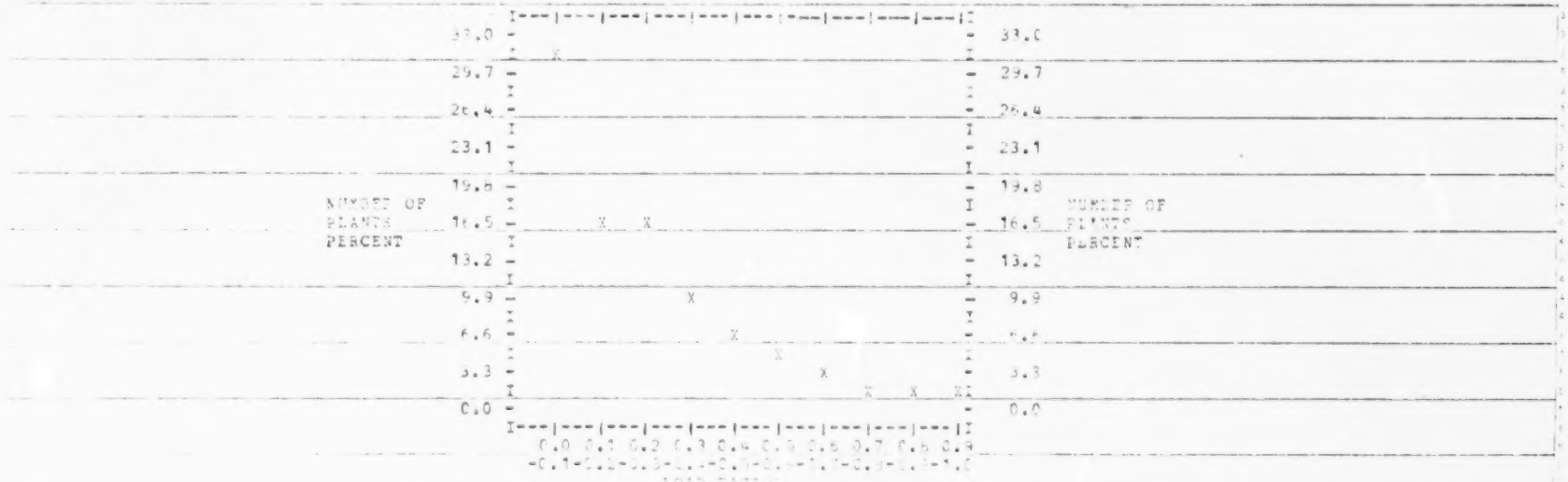




NUMBER OF BOILERS (ALL DATA) = 5404 NUMBER OF BOILERS (RELIABLE DATA) = 4378
NUMBER OF PLANTS (ALL DATA) = 2966 NUMBER OF PLANTS (RELIABLE DATA) = 2476

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTOR DENSITIES





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NUMBER OF PLANTS (ALL DATA) = 2946 NUMBER OF PLANTS (RELIABLE DATA) = 2476

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

BOILER LOAD FACTORS

CAPACITY MBTU'S/HR	EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	811.	1164.	1002.	986.	502.	483.	264.	216.	152.
11- 20	1270.	2876.	1789.	1717.	1511.	723.	589.	451.	344.
21- 30	1274.	3678.	2246.	2537.	794.	1196.	718.	494.	202.
31- 40	556.	3593.	2031.	1674.	1467.	1122.	435.	178.	301.
41- 50	1101.	4804.	1389.	1295.	1104.	591.	416.	457.	546.
51- 60	1363.	3454.	2080.	1661.	1014.	349.	595.	216.	178.
61- 70	410.	3746.	1313.	1253.	583.	851.	326.	318.	673.
71- 80	853.	4816.	2066.	2265.	695.	675.	372.	758.	610.
81- 90	524.	6293.	1484.	1280.	340.	1009.	608.	527.	0.
91- 100	1646.	3025.	1468.	1261.	792.	775.	92.	584.	400.
101- 200	4095.	33716.	12358.	6951.	5382.	6203.	2478.	3512.	5167.
201- 300	3399.	16288.	5432.	4678.	2809.	2634.	2537.	1831.	2666.
301- 400	996.	10673.	6872.	2893.	978.	754.	3121.	2456.	1768.
401- 500	500.	8253.	2242.	883.	0.	1393.	451.	500.	0.
501- 600	1800.	9367.	0.	1726.	1660.	510.	546.	0.	0.
601- 700	0.	1971.	700.	680.	622.	0.	1876.	3348.	0.
701- 800	2359.	2296.	0.	0.	800.	0.	2247.	708.	0.
801- 900	0.	1679.	2550.	0.	0.	0.	0.	0.	0.
901- 1000	0.	1000.	930.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	21252.	1870.	0.	0.	1870.	0.	1477.	1139.
2001- 3000	0.	4460.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	3020.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	4540.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	22947.	157965.	49816.	33740.	21053.	21133.	17671.	18031.	14146.
CUMUL. TOTALS	0.	157965.	207781.	241521.	262574.	283707.	301378.	319409.	333555.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	144.	124.	5848.	0.	471.	6319.	5848.	6319.
11- 20	264.	205.	11739.	0.	495.	12234.	17587.	18553.
21- 30	424.	192.	13755.	0.	489.	14244.	31342.	32797.
31- 40	137.	219.	11713.	0.	1015.	12726.	43055.	45525.
41- 50	325.	369.	12397.	0.	392.	12789.	55452.	58314.
51- 60	157.	230.	11297.	0.	469.	11766.	66749.	70080.
61- 70	203.	204.	9882.	0.	196.	10078.	76631.	80158.
71- 80	72.	307.	13476.	0.	305.	13783.	90107.	93941.
81- 90	176.	90.	12333.	0.	178.	12511.	102442.	106452.
91- 100	200.	464.	10727.	0.	1080.	11807.	113169.	118259.
101- 200	1908.	2052.	83822.	0.	2160.	85982.	196991.	204241.
201- 300	1294.	1058.	46616.	0.	1559.	48175.	243607.	252416.
301- 400	776.	1613.	33097.	0.	738.	33835.	276704.	286251.
401- 500	1366.	0.	15608.	0.	929.	16537.	292312.	302788.
501- 600	1183.	0.	16792.	0.	0.	16792.	309104.	319580.
601- 700	0.	0.	9197.	0.	1246.	10443.	318301.	330023.
701- 800	0.	0.	8410.	0.	0.	8410.	326711.	338433.
801- 900	0.	0.	4229.	0.	0.	4229.	330940.	342662.
901- 1000	0.	0.	1930.	0.	0.	1930.	332870.	344592.
1001- 2000	1032.	0.	28640.	0.	0.	28640.	361510.	373232.
2001- 3000	0.	0.	4460.	0.	0.	4460.	365970.	377692.
3001- 4000	0.	0.	3020.	0.	0.	3020.	368990.	380712.
4001- 5000	0.	0.	4540.	0.	0.	4540.	373530.	385252.
5001- 6000	0.	0.	0.	0.	0.	0.	373530.	385252.
6001- 7000	0.	0.	0.	0.	0.	0.	373530.	385252.
7001- 8000	0.	0.	0.	0.	0.	0.	373530.	385252.
8001- 9000	0.	0.	0.	0.	0.	0.	373530.	385252.
9001- 10000	0.	0.	0.	0.	0.	0.	373530.	385252.
10001-100000	0.	0.	0.	0.	0.	0.	373530.	385252.
COLUMN TOTALS	9681.	7347.	373530.	0.	11722.	385252.		
CUMUL. TOTALS	343236.	350583.	350583.	350583.	362305.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	219.	740.	427.	464.	204.	208.	155.	97.	71.
11-	20	304.	1030.	836.	781.	754.	245.	286.	218.	121.
21-	30	313.	1247.	1174.	1417.	451.	617.	394.	314.	46.
31-	40	425.	1767.	1502.	1162.	814.	677.	177.	219.	113.
41-	50	225.	1954.	1044.	1077.	551.	637.	417.	220.	141.
51-	60	446.	2331.	767.	1515.	865.	276.	176.	232.	238.
61-	70	197.	2240.	871.	342.	589.	526.	323.	62.	132.
71-	80	464.	4341.	548.	1047.	401.	317.	378.	79.	150.
81-	90	198.	1470.	1321.	699.	514.	84.	341.	251.	0.
91-	100	544.	1747.	842.	784.	477.	184.	0.	0.	168.
101-	200	2599.	18108.	7761.	5745.	4365.	2459.	1504.	1699.	556.
201-	300	3738.	13104.	5938.	4480.	2724.	3788.	1452.	901.	1221.
301-	400	1402.	14542.	4431.	3741.	1144.	2109.	330.	1461.	976.
401-	500	1746.	8961.	2824.	2204.	1370.	1421.	1405.	500.	1732.
501-	600	1100.	8478.	4342.	1619.	1722.	810.	542.	1885.	0.
601-	700	1299.	7944.	1360.	0.	685.	670.	1255.	0.	0.
701-	800	0.	5194.	2251.	1478.	750.	747.	0.	2307.	0.
801-	900	902.	3859.	1724.	0.	1682.	0.	0.	0.	872.
901-	1000	0.	1950.	0.	969.	0.	0.	1470.	0.	0.
1001-	2000	3964.	25171.	8878.	0.	1434.	5286.	9786.	12691.	2762.
2001-	3000	0.	7182.	5469.	5175.	0.	0.	2214.	0.	0.
3001-	4000	0.	6470.	0.	3184.	0.	0.	0.	0.	0.
4001-	5000	0.	4540.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	5500.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	10000.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
CUMUL. TOTALS		20091.	147239.	55455.	37842.	27245.	21108.	22379.	23041.	9251.
CUMUL. TOTALS		0.	147239.	190690.	237532.	264777.	285879.	308258.	331298.	341150.

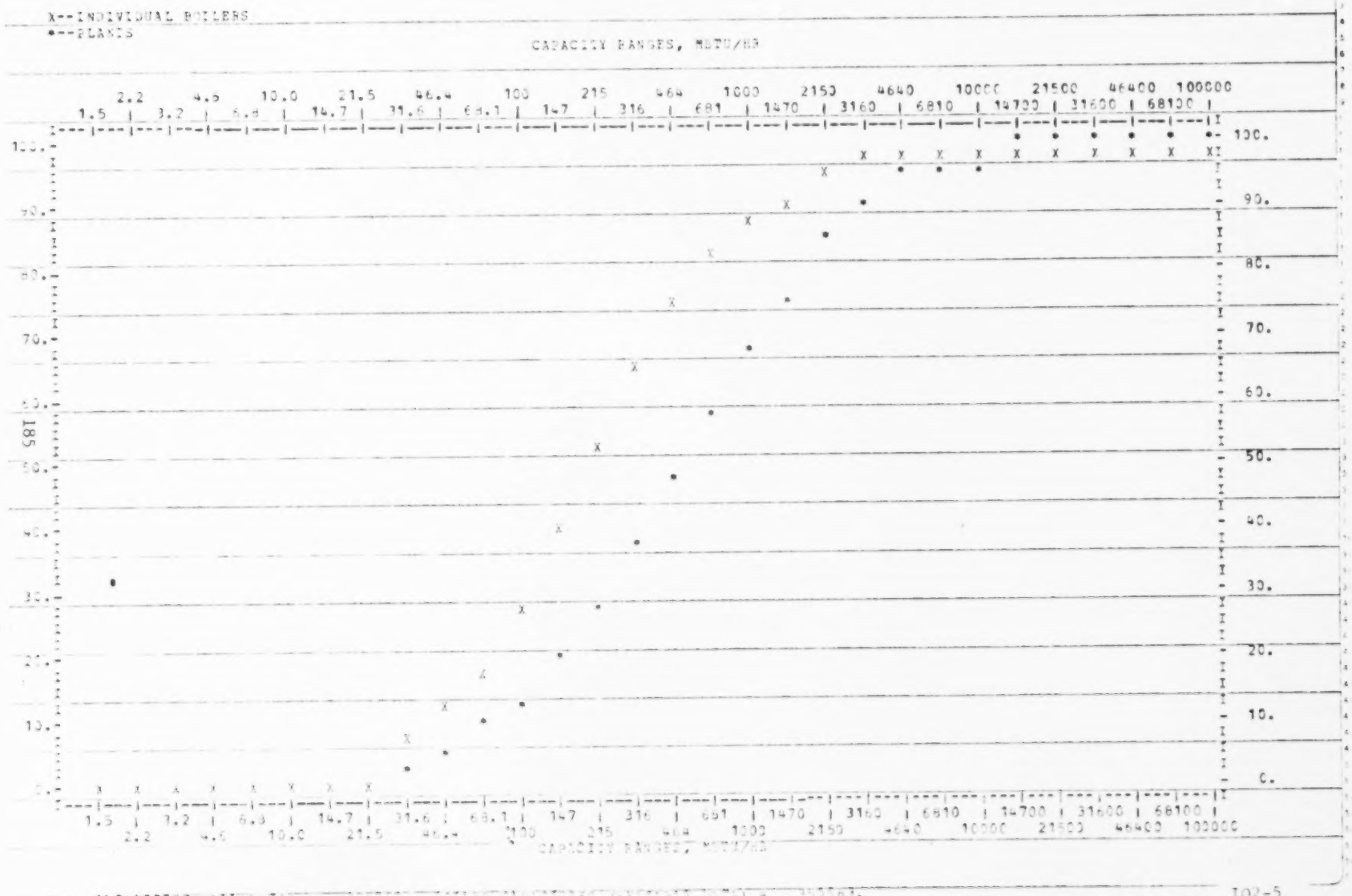
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	66.	25.	2642.	0.	200.	2842.	2642.	2842.
11- 20	163.	143.	4859.	0.	172.	5031.	7501.	7873.
21- 30	129.	241.	6491.	0.	154.	6645.	13992.	14518.
31- 40	105.	149.	7110.	0.	201.	7311.	21102.	21829.
41- 50	88.	85.	6439.	0.	227.	6666.	27541.	28495.
51- 60	163.	0.	7039.	0.	285.	7324.	34580.	35819.
61- 70	70.	70.	5272.	0.	132.	5404.	39852.	41223.
71- 80	72.	232.	6160.	0.	444.	6604.	46012.	47827.
81- 90	0.	0.	4574.	0.	82.	4656.	50586.	52483.
91- 100	296.	184.	5322.	0.	488.	5810.	55908.	58293.
101- 200	730.	827.	46424.	0.	2269.	48693.	102332.	106986.
201- 300	790.	0.	38172.	0.	1038.	39210.	140504.	146196.
301- 400	760.	344.	29870.	0.	1118.	30988.	170374.	177184.
401- 500	432.	0.	22204.	0.	459.	22663.	192578.	199847.
501- 600	1740.	1116.	23073.	0.	0.	23073.	215651.	222920.
601- 700	0.	658.	13531.	0.	609.	14240.	229282.	237160.
701- 800	780.	0.	13507.	0.	2267.	15774.	242789.	252934.
801- 900	0.	0.	8449.	0.	0.	8449.	251238.	261383.
901- 1000	0.	0.	4789.	0.	0.	4789.	256027.	266172.
1001- 2000	2127.	1227.	69370.	0.	0.	69370.	325397.	335542.
2001- 3000	0.	0.	20036.	0.	0.	20036.	345433.	355578.
3001- 4000	0.	0.	9634.	0.	0.	9634.	355067.	365212.
4001- 5000	0.	0.	4540.	0.	0.	4540.	359607.	369752.
5001- 6000	0.	0.	5500.	0.	0.	5500.	365107.	375252.
6001- 7000	0.	0.	0.	0.	0.	0.	375107.	375252.
7001- 8000	0.	0.	0.	0.	0.	0.	375107.	375252.
8001- 9000	0.	0.	0.	0.	0.	0.	375107.	375252.
9001- 10000	0.	0.	10000.	0.	0.	10000.	375107.	385252.
10001- 20000	0.	0.	0.	0.	0.	0.	375107.	385252.
20001- 30000	0.	0.	0.	0.	0.	0.	375107.	385252.
30001- 40000	0.	0.	0.	0.	0.	0.	375107.	385252.
40001- 50000	0.	0.	0.	0.	0.	0.	375107.	385252.
50001-100000	0.	0.	0.	0.	0.	0.	375107.	385252.
COLUMN TOTALS	8515.	5351.	375107.	0.	10145.	385252.		
CUMUL. TOTALS	349665.	355016.	355016.	355016.	365161.			

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

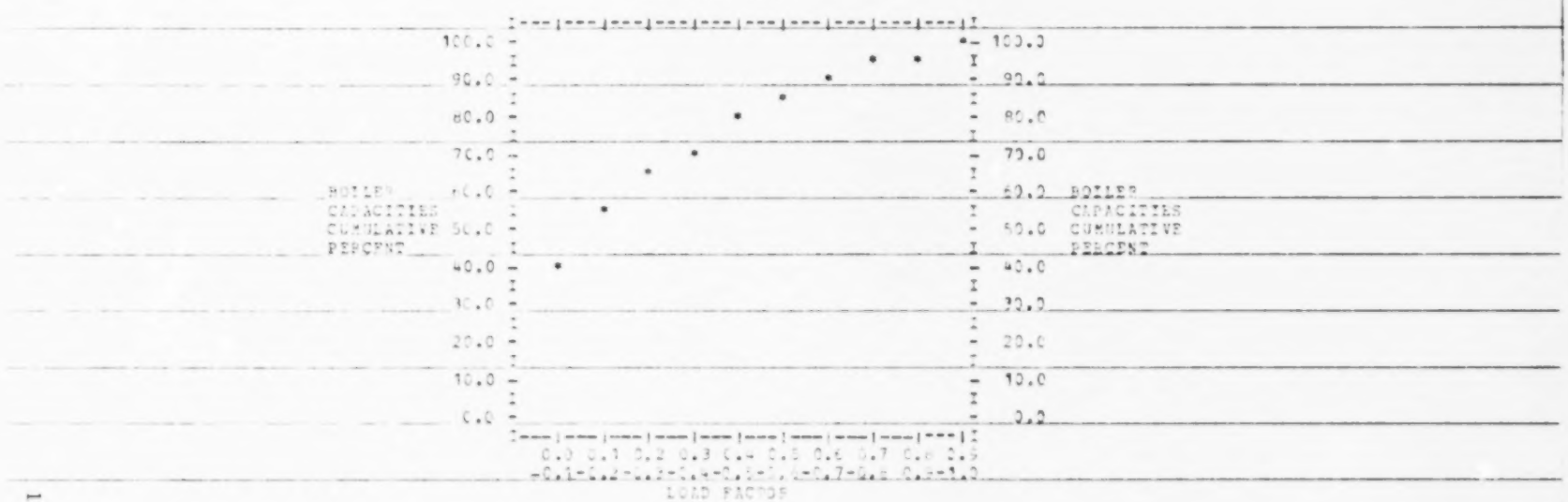
X--INDIVIDUAL BOILERS
•--PLANTS

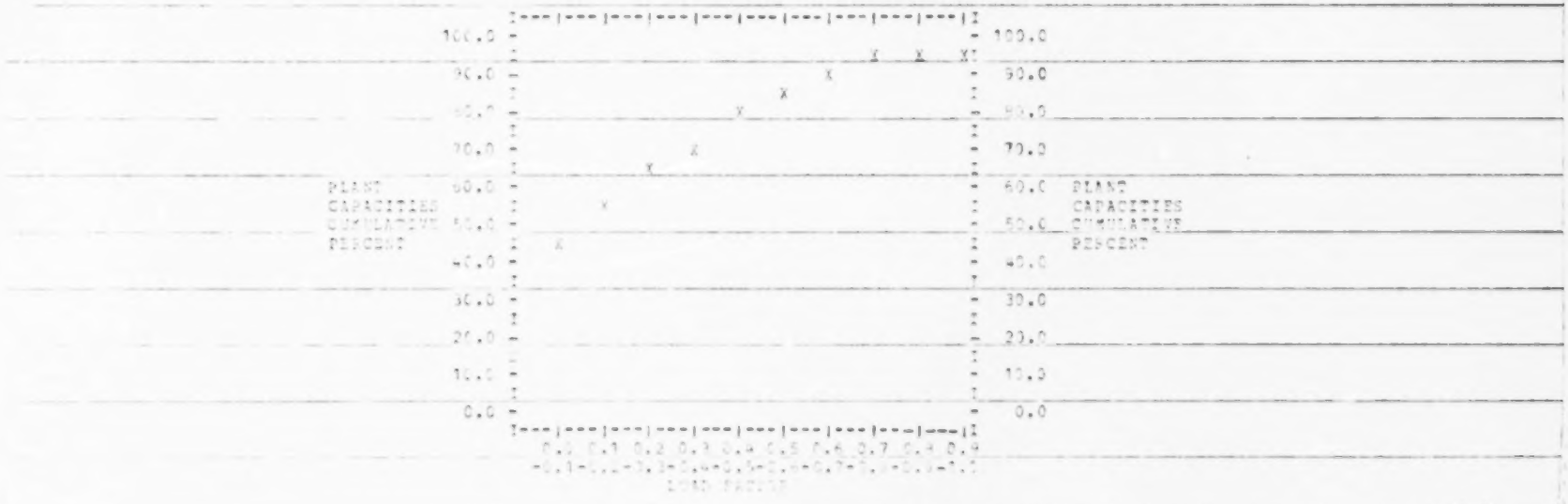


CAPACITY RANGES, MBTU/HR

PLANT CAPACITIES (ALL DATA) = 385252. BOILER CAPACITIES (RELIABLE DATA) = 355063.
PLANT CAPACITIES (ALL DATA) = 385252. PLANT CAPACITIES (RELIABLE DATA) = 355016.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTORS





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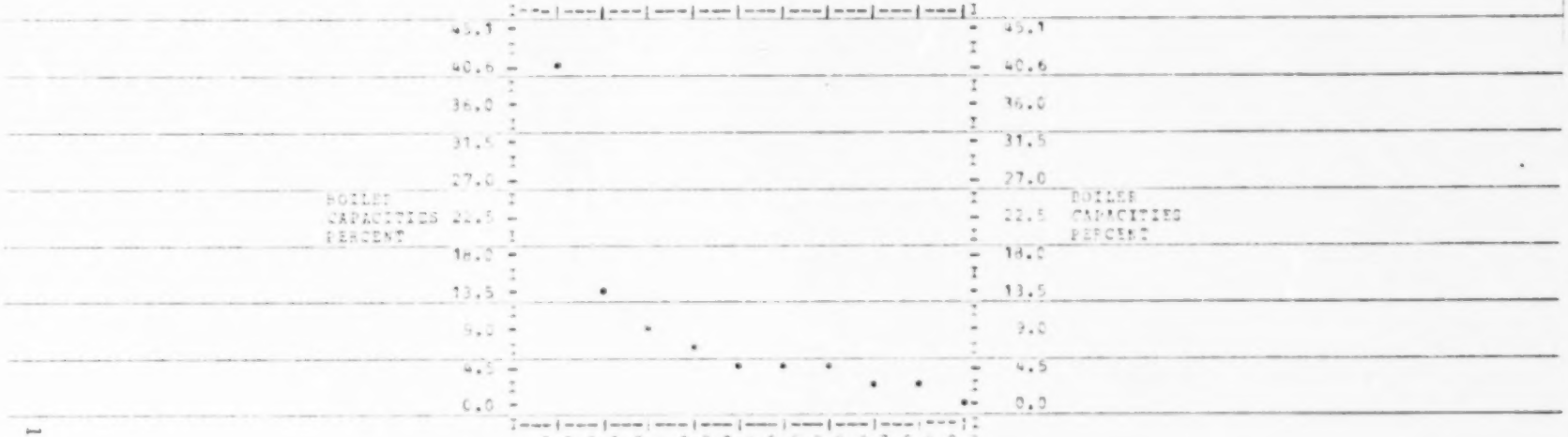
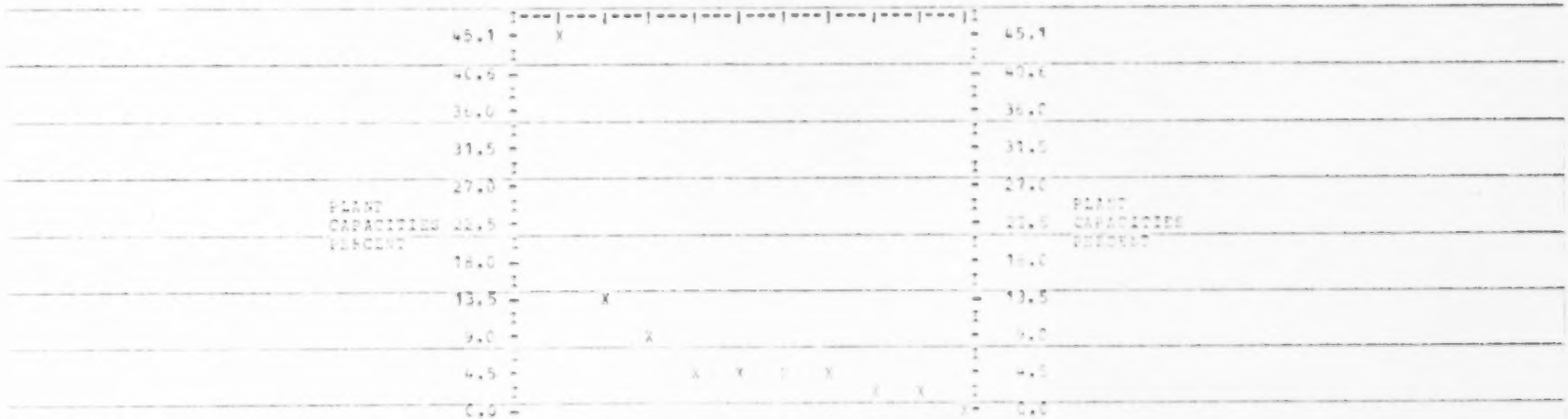
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTOR DENSITIES





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PLANT CAPACITIES (ALL DATA) = 385252. PLANT CAPACITIES (PLOTTABLE DATA) = 385243.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	189	14	22	3	21	9	17	2	10
1-	10	164	173	149	41	114	44	92	15	90
11-	20	107	56	43	18	68	23	52	11	49
21-	30	56	33	22	12	27	21	57	6	33
31-	40	36	18	15	4	38	18	9	5	41
41-	50	31	11	13	3	41	9	26	3	20
51-	60	30	8	8	2	19	12	23	5	14
61-	70	9	7	8	1	23	8	6	3	27
71-	80	14	14	1	0	20	12	23	5	10
81-	90	9	10	15	2	12	4	19	2	2
91-	100	20	5	4	1	8	5	12	3	7
101-	200	36	19	28	11	56	50	70	19	41
201-	300	17	14	5	8	11	16	22	10	13
301-	400	3	4	3	0	14	9	5	7	5
401-	500	2	2	0	1	3	5	6	1	3
501-	600	5	0	6	0	0	4	5	2	1
601-	700	0	0	0	0	2	1	1	0	2
701-	800	3	0	0	0	1	0	0	0	2
801-	900	0	0	0	0	2	1	0	0	0
901-	1000	0	0	0	0	0	0	1	0	1
1001-	2000	0	0	0	0	2	0	3	0	4
2001-	3000	0	0	0	0	2	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	1	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		711	388	342	107	485	251	449	99	375
CUMUL. TOTALS		711	1099	1441	1548	2033	2284	2733	2832	3207

POPULATION DATA - INDUSTRIAL BOILERS
ITY BY BOILER FUEL SULFUR CONTENT
OIL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS
ITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL [illegible] CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	26	14	2	1	0	0	0	330	330
1-	10	190	180	13	3	0	2	0	1270	1600
11-	20	216	137	14	4	1	2	0	801	2401
21-	30	127	135	17	3	3	4	[illegible]	569	2970
31-	40	90	76	12	6	2	0	0	350	3310
41-	50	56	43	16	3	1	0	0	276	3586
51-	60	34	43	5	4	0	0	0	207	3793
61-	70	27	20	4	1	0	0	0	153	3946
71-	80	30	41	7	3	0	1	0	181	4127
81-	90	23	37	7	0	0	3	0	145	4272
91-	100	16	27	9	2	0	0	0	121	4393
101-	200	83	140	28	16	0	0	1	598	4991
201-	300	19	47	10	2	2	0	0	196	5187
301-	400	14	19	4	7	0	0	0	94	5281
401-	500	5	6	1	1	0	0	0	36	5317
501-	600	3	3	1	0	0	0	0	30	5347
601-	700	1	7	2	0	0	0	0	16	5363
701-	800	2	3	0	0	0	0	0	11	5374
801-	900	1	0	1	0	0	0	0	5	5379
901-	1000	0	0	1	0	0	0	0	2	5381
1001-	2000	8	2	0	0	0	0	0	19	5400
2001-	3000	0	0	0	0	0	0	0	2	5402
3001-	4000	1	0	0	0	0	0	0	1	5403
4001-	5000	0	0	0	0	0	0	0	1	5404
5001-	6000	0	0	0	0	0	0	0	0	5404
6001-	7000	0	0	0	0	0	0	0	0	5404
7001-	8000	0	0	0	0	0	0	0	0	5404
8001-	9000	0	0	0	0	0	0	0	0	5404
9001-	10000	0	0	0	0	0	0	0	0	5404
10001-	100000	0	0	0	0	0	0	0	0	5404
COLUMN TOTALS		974	989	153	56	9	11	5	5404	
CUMTOL TOTALS		4181	5170	5323	5379	5388	5399	5404		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	100	12	19	2	15	4	9	2	9
1-	10	54	98	73	16	46	24	65	11	39
11-	20	28	23	25	6	19	8	25	9	31
21-	30	17	16	22	6	17	11	14	1	18
31-	40	13	16	7	0	11	12	11	4	20
41-	50	6	10	9	1	14	5	9	1	10
51-	60	10	5	9	2	9	7	15	2	13
61-	70	4	2	4	2	8	5	6	3	7
71-	80	6	7	3	0	6	4	11	1	7
81-	90	3	2	3	1	6	2	7	0	3
91-	100	7	4	1	2	3	3	7	3	7
101-	200	26	23	15	6	41	20	27	8	21
201-	300	17	11	5	5	20	7	22	1	17
301-	400	4	4	6	1	11	6	5	4	9
401-	500	5	2	0	2	6	1	7	3	4
501-	600	2	0	3	0	4	4	6	1	2
601-	700	2	0	0	0	4	1	1	2	2
701-	800	1	1	2	0	1	1	0	0	3
801-	900	1	0	1	0	3	0	0	0	0
901-	1000	0	0	0	0	0	0	2	0	0
1001-	2000	4	1	2	1	5	1	7	3	5
2001-	3000	0	0	0	0	2	1	1	1	1
3001-	4000	0	0	0	0	0	2	0	0	0
4001-	5000	0	0	0	0	1	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		310	237	209	52	252	129	257	59	228
CUMUL. TOTALS		310	547	756	808	1060	1189	1446	1505	1733

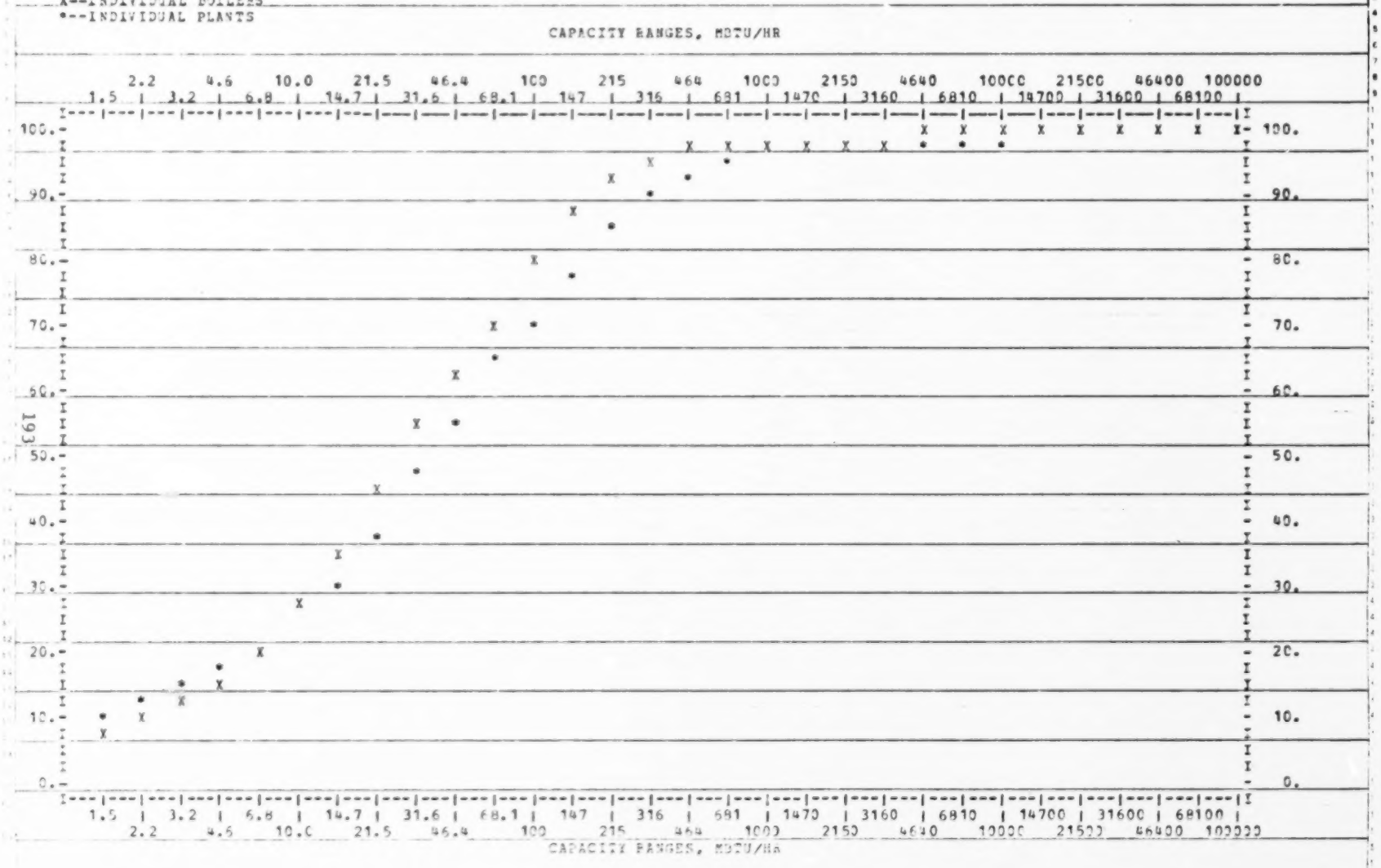
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	19	10	2	1	0	0	0	204	204
1-	10	79	105	9	2	0	0	0	621	825
11-	20	81	62	6	1	1	0	0	324	1149
21-	30	61	60	13	1	0	1	0	258	1407
31-	40	58	42	7	2	1	0	0	204	1611
41-	50	33	35	9	4	0	0	0	146	1757
51-	60	25	26	6	0	0	0	0	129	1886
61-	70	22	13	4	1	0	1	0	82	1968
71-	80	18	17	6	1	0	0	0	87	2055
81-	90	9	12	4	0	0	1	1	54	2109
91-	100	12	6	4	1	0	0	0	60	2169
101-	200	58	64	18	5	1	0	1	334	2503
201-	300	25	23	3	3	0	0	0	158	2661
301-	400	17	17	2	2	1	0	0	89	2750
401-	500	7	19	2	1	1	0	0	51	2801
501-	600	6	10	4	0	0	0	0	42	2843
601-	700	4	3	2	1	0	0	0	22	2865
701-	800	2	10	0	0	0	0	0	21	2886
801-	900	3	1	1	0	0	0	0	10	2896
901-	1000	0	3	0	0	0	0	0	5	2901
1001-	2000	5	13	3	1	0	0	0	51	2952
2001-	3000	0	1	0	1	0	0	0	8	2960
3001-	4000	1	0	0	0	0	0	0	3	2963
4001-	5000	0	0	0	0	0	0	0	1	2964
5001-	6000	0	1	0	0	0	0	0	1	2965
6001-	7000	0	0	0	0	0	0	0	0	2965
7001-	8000	0	0	0	0	0	0	0	0	2965
8001-	9000	0	0	0	0	0	0	0	0	2965
9001-	10000	1	0	0	0	0	0	0	1	2966
10001-	20000	0	0	0	0	0	0	0	0	2966
20001-	30000	0	0	0	0	0	0	0	0	2966
30001-	40000	0	0	0	0	0	0	0	0	2966
40001-	50000	0	0	0	0	0	0	0	0	2966
50001-	100000	0	0	0	0	0	0	0	0	2966
COLUMN TOTALS		546	544	105	28	5	3	2	2966	
CUMUL. TOTALS		2279	2823	2929	2956	2961	2964	2966		

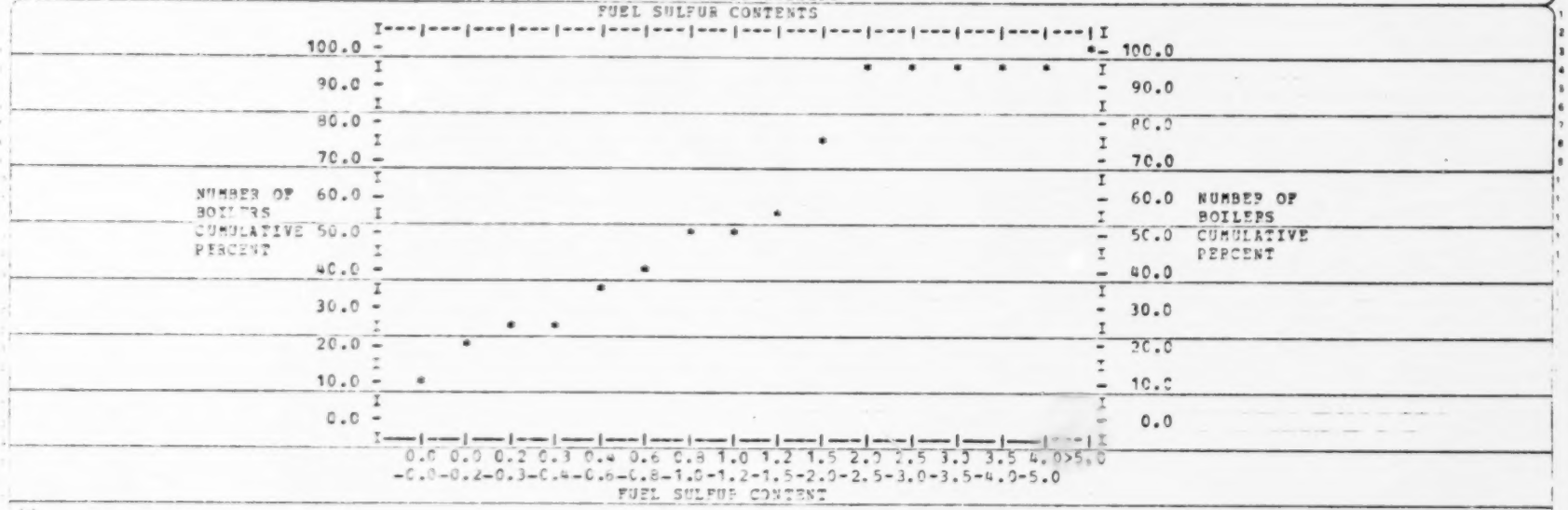
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

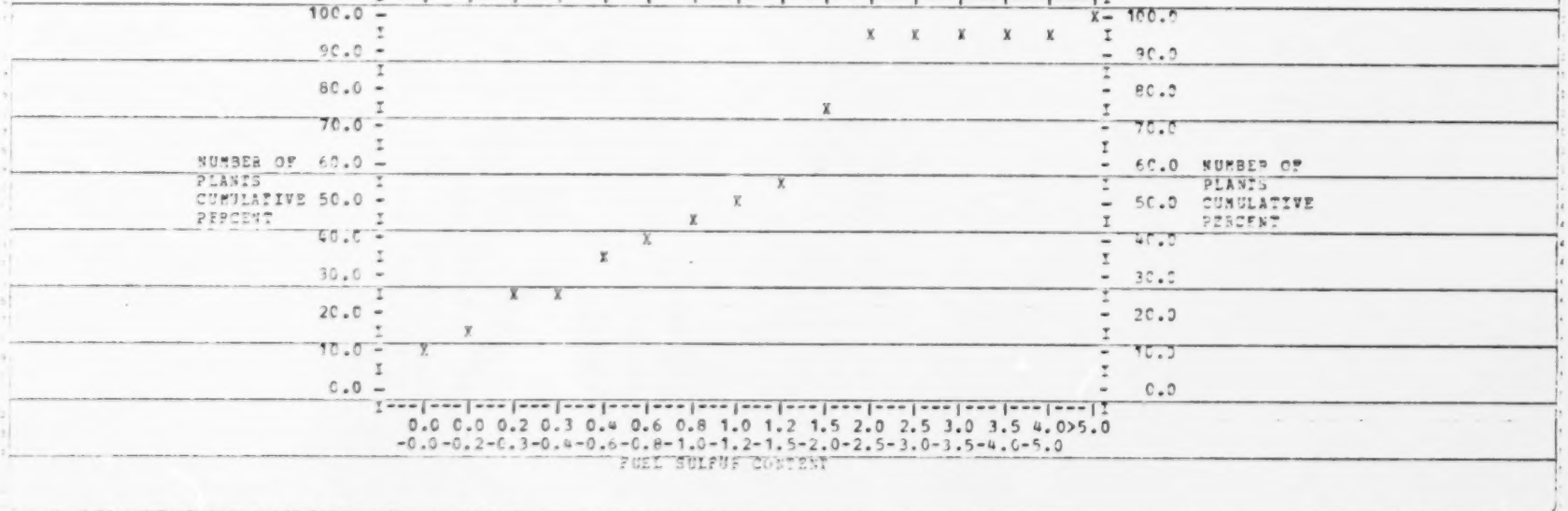
X---INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 5404
NUMBER OF PLANTS (ALL DATA) = 2966

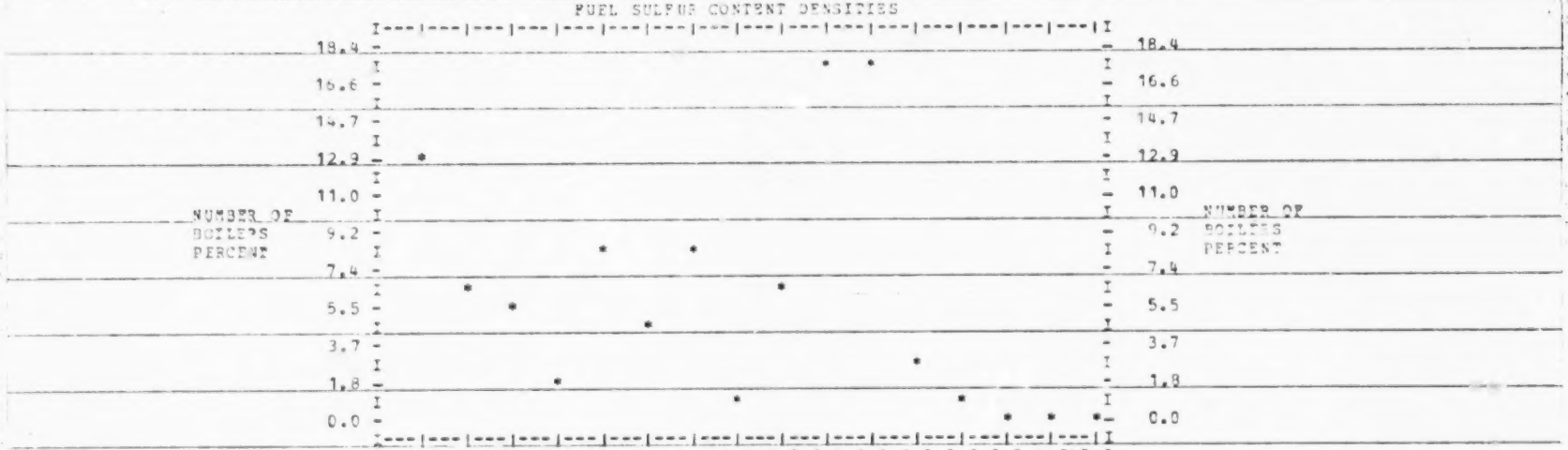
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS

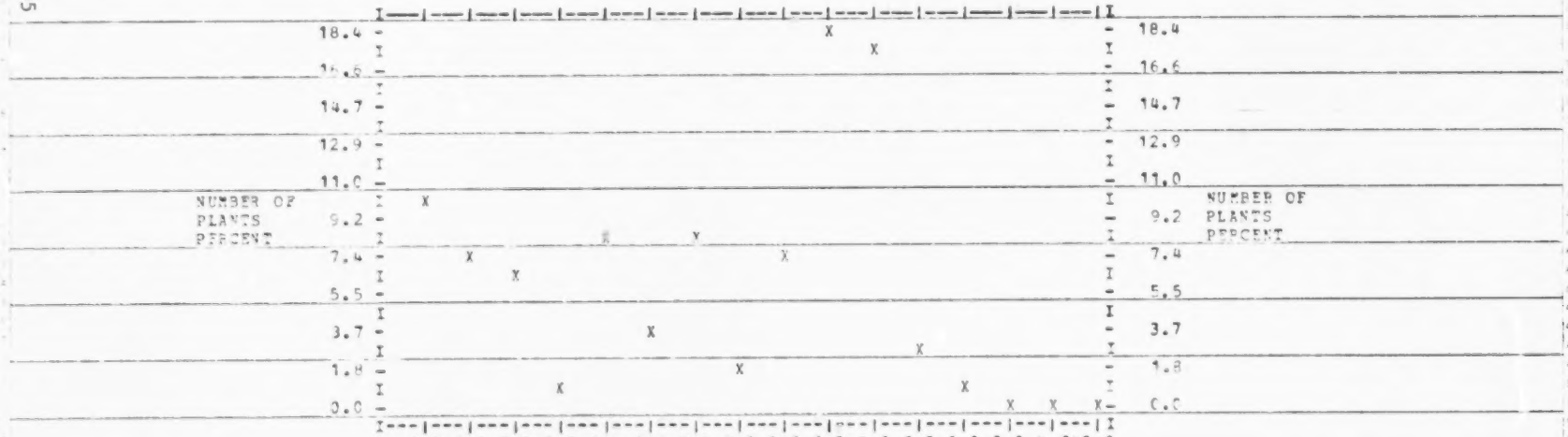




NUMBER OF BOILERS (ALL DATA) = 5404
NUMBER OF PLANTS (ALL DATA) = 2966

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 5404
NUMBER OF PLANTS (ALL DATA) = 2966

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	921.	710.	595.	162.	566.	195.	412.	60.	501.
11-	20	1557.	878.	657.	266.	398.	374.	788.	163.	751.
21-	30	1403.	80[illegible].	581.	306.	775.	543.	1493.	156.	950.
31-	40	587.	635.	514.	144.	1395.	652.	324.	185.	1477.
41-	50	1486.	517.	590.	136.	1917.	405.	1200.	135.	948.
51-	60	1710.	457.	437.	104.	1091.	669.	1312.	284.	793.
61-	70	602.	447.	530.	70.	1506.	536.	397.	196.	1779.
71-	80	1043.	1065.	72.	0.	1446.	937.	1777.	381.	727.
81-	90	784.	815.	1321.	176.	1038.	359.	1427.	173.	174.
91-	100	1948.	498.	392.	100.	770.	485.	1182.	285.	685.
101-	200	4837.	2634.	3821.	1429.	8021.	7108.	10297.	2849.	5873.
201-	300	4104.	3307.	1277.	2049.	2547.	4091.	5347.	2474.	3384.
301-	400	996.	1433.	1014.	0.	4911.	3319.	1905.	2401.	1626.
401-	500	913.	662.	0.	435.	1382.	2250.	2764.	491.	1353.
501-	600	2824.	0.	2442.	0.	0.	2235.	2875.	1105.	505.
601-	700	0.	0.	0.	0.	1335.	690.	700.	0.	1281.
701-	800	2359.	0.	0.	0.	800.	0.	0.	0.	1546.
801-	900	0.	0.	0.	0.	1679.	900.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	930.	0.	1000.
1001-	2000	0.	0.	0.	0.	2385.	0.	5156.	0.	5823.
2001-	3000	0.	0.	0.	0.	4460.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	4540.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		28082.	15064.	15241.	5427.	43524.	25736.	40486.	11338.	31326.
CUMUL. TOTALS		28082.	43146.	58387.	63814.	107338.	133074.	173560.	184898.	216224.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTH BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	1124.	968.	82.	13.	0.	10.	0.	6319.	6319.
11-	20	3355.	2126.	207.	63.	17.	22.	0.	12234.	18553.
21-	30	3167.	3477.	421.	97.	75.	63.	112.	14344.	32797.
31-	40	3306.	2773.	440.	224.	70.	0.	0.	12728.	45525.
41-	50	2579.	1960.	767.	143.	46.	0.	0.	12789.	58314.
51-	60	1345.	2437.	287.	240.	0.	0.	0.	11766.	70080.
61-	70	1775.	1906.	268.	64.	0.	0.	0.	10078.	80158.
71-	80	2276.	3102.	511.	234.	0.	72.	0.	13783.	93941.
81-	90	1967.	3784.	803.	0.	0.	279.	0.	12511.	106452.
91-	100	1756.	2638.	870.	200.	0.	0.	0.	11807.	118259.
101-	200	11688.	20803.	4260.	2219.	0.	0.	162.	85982.	204241.
201-	300	4479.	11684.	2407.	505.	420.	0.	0.	48175.	252416.
301-	400	4332.	6777.	1538.	2788.	0.	0.	0.	33835.	286251.
401-	500	2410.	2785.	410.	482.	0.	0.	0.	16537.	302788.
501-	600	1688.	1627.	510.	0.	0.	0.	0.	16792.	319580.
601-	700	668.	4565.	1214.	0.	0.	0.	0.	10443.	330023.
701-	800	1488.	2217.	0.	0.	0.	0.	0.	8410.	338433.
801-	900	814.	0.	836.	0.	0.	0.	0.	4229.	342662.
901-	1000	0.	0.	0.	0.	0.	0.	0.	1430.	344092.
1001-	2000	11616.	3740.	0.	0.	0.	0.	0.	28640.	372732.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	4860.	377592.
3001-	4000	3020.	0.	0.	0.	0.	0.	0.	3020.	380712.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	4540.	385252.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	385252.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	385252.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	385252.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	385252.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	385252.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	385252.
COLUMN TOTALS		66054.	78747.	15631.	7254.	631.	437.	274.	385252.	
CUMUL. TOTALS		282274.	361025.	376656.	383910.	384541.	384978.	385252.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	299.	411.	264.	62.	163.	86.	256.	39.	226.
11-	20	430.	360.	387.	88.	282.	133.	396.	107.	475.
21-	30	434.	411.	604.	155.	447.	276.	352.	25.	460.
31-	40	461.	571.	237.	0.	388.	414.	412.	143.	792.
41-	50	267.	476.	400.	50.	641.	230.	420.	44.	461.
51-	60	566.	273.	501.	119.	526.	386.	862.	119.	733.
61-	70	267.	138.	266.	132.	534.	323.	392.	192.	467.
71-	80	464.	530.	223.	0.	464.	393.	841.	79.	528.
81-	90	251.	172.	256.	88.	508.	173.	602.	0.	257.
91-	100	694.	398.	95.	192.	288.	288.	682.	277.	617.
101-	200	3663.	3412.	2171.	48.	5427.	2928.	4133.	1123.	3248.
201-	300	4003.	2756.	1241.	1069.	4883.	1855.	5482.	234.	4252.
301-	400	1409.	1472.	2057.	334.	3793.	2105.	1727.	1319.	3154.
401-	500	2158.	875.	0.	879.	2728.	487.	3166.	1403.	1706.
501-	600	1120.	0.	1859.	0.	2259.	2365.	3305.	505.	1012.
601-	700	1296.	0.	0.	0.	2883.	698.	608.	1318.	1281.
701-	800	750.	729.	1470.	0.	798.	725.	0.	0.	2274.
801-	900	802.	0.	860.	0.	2499.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	1944.	0.	0.
1001-	2000	5006.	1522.	2805.	1021.	5990.	1135.	10417.	4608.	6573.
2001-	3000	0.	0.	0.	0.	4460.	2955.	2262.	2940.	2880.
3001-	4000	0.	0.	0.	0.	0.	6614.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	4240.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		24346.	14612.	15501.	5037.	44681.	24279.	38262.	18472.	31179.
CUMUL. TOTALS		24346.	38858.	54359.	59396.	104077.	128353.	166615.	185087.	216263.

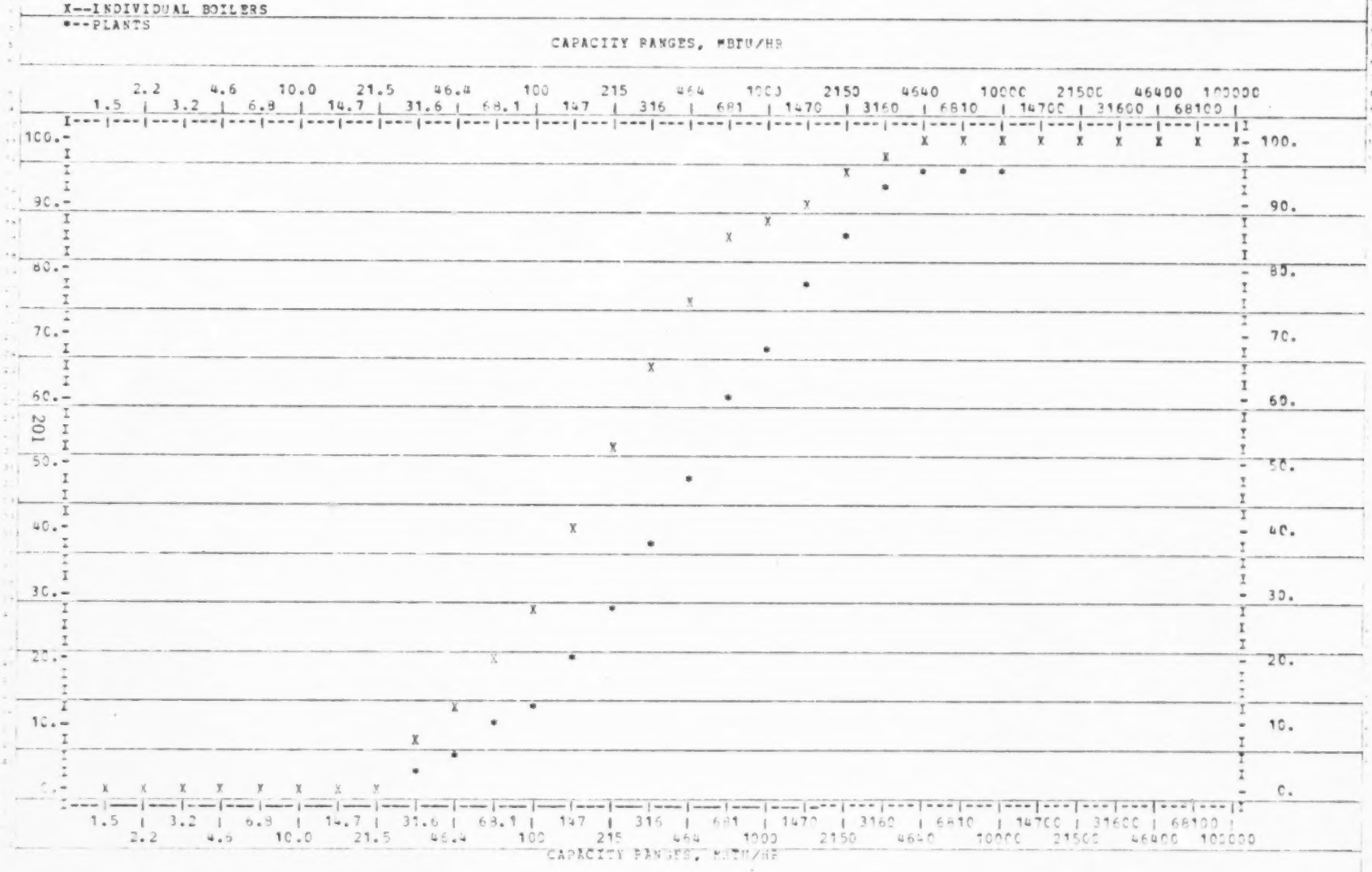
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT LTI BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	465.	501.	57.	13.	0.	0.	0.	2842.	2842.
11-	20	1284.	950.	103.	19.	17.	0.	0.	5031.	7873.
21-	30	1521.	1568.	344.	28.	0.	23.	0.	6445.	14318.
31-	40	2093.	1507.	253.	84.	34.	0.	0.	7911.	21829.
41-	50	1479.	1588.	424.	186.	0.	0.	0.	6666.	28495.
51-	60	1407.	1487.	345.	0.	0.	0.	0.	7324.	35819.
61-	70	1440.	865.	241.	64.	0.	63.	0.	5404.	41223.
71-	80	1344.	1301.	437.	75.	0.	0.	0.	6604.	47827.
81-	90	788.	1034.	384.	0.	0.	82.	87.	4656.	52483.
91-	100	1157.	581.	381.	100.	0.	0.	0.	5810.	58293.
101-	200	8343.	9332.	2671.	672.	160.	0.	162.	48693.	106986.
201-	300	6053.	5898.	799.	745.	0.	0.	0.	39210.	146196.
301-	400	5947.	5845.	720.	710.	390.	0.	0.	30988.	177184.
401-	500	3033.	4485.	868.	462.	420.	0.	0.	22663.	199847.
501-	600	3335.	5470.	2237.	0.	0.	0.	0.	23073.	222920.
601-	700	2531.	1937.	1225.	612.	0.	0.	0.	14240.	237160.
701-	800	1434.	753.	0.	0.	0.	0.	0.	15774.	252934.
801-	900	2564.	848.	636.	0.	0.	0.	0.	8449.	261383.
901-	1000	0.	2845.	0.	0.	0.	0.	0.	4789.	266172.
1001-	2000	7554.	18139.	3580.	1018.	0.	0.	0.	69370.	335542.
2001-	3000	0.	2214.	0.	2525.	0.	0.	0.	20036.	355578.
3001-	4000	3020.	0.	0.	0.	0.	0.	0.	9634.	365212.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	4540.	369752.
5001-	6000	0.	5500.	0.	0.	0.	0.	0.	8500.	378252.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	378252.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	378252.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	378252.
9001-	10000	10000.	0.	0.	0.	0.	0.	0.	10000.	388252.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	388252.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	388252.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	388252.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	388252.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	388252.
COLUMN TOTALS		66908.	81453.	15876.	7355.	1021.	167.	249.	388252.	
CUMUL. TOTALS		279171.	360624.	376500.	383855.	384876.	385043.	385292.		

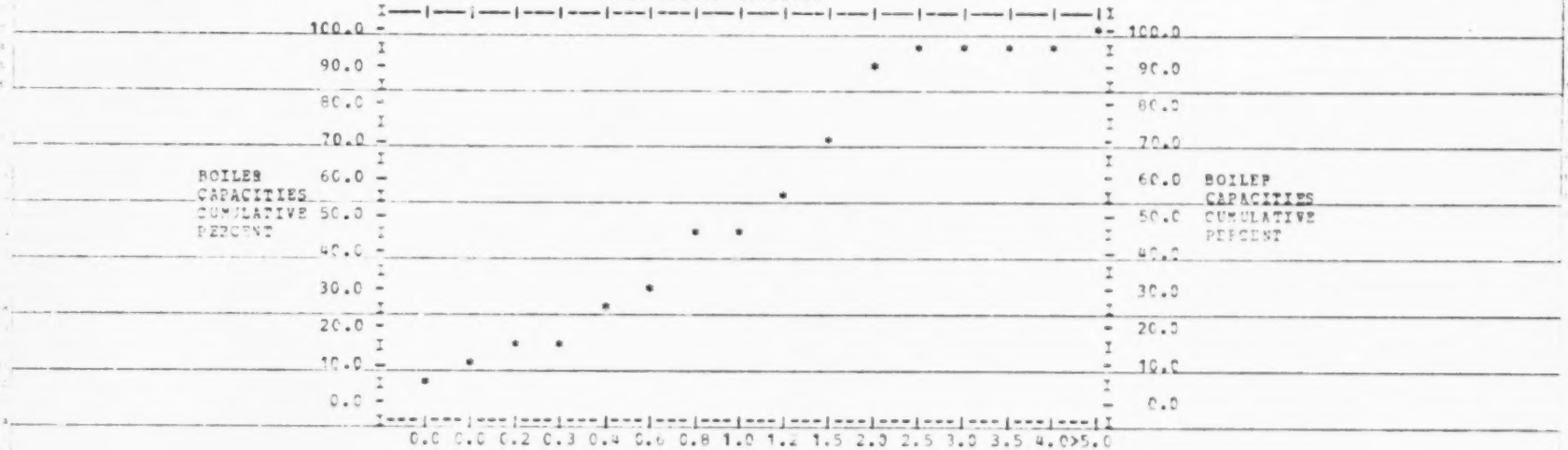
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

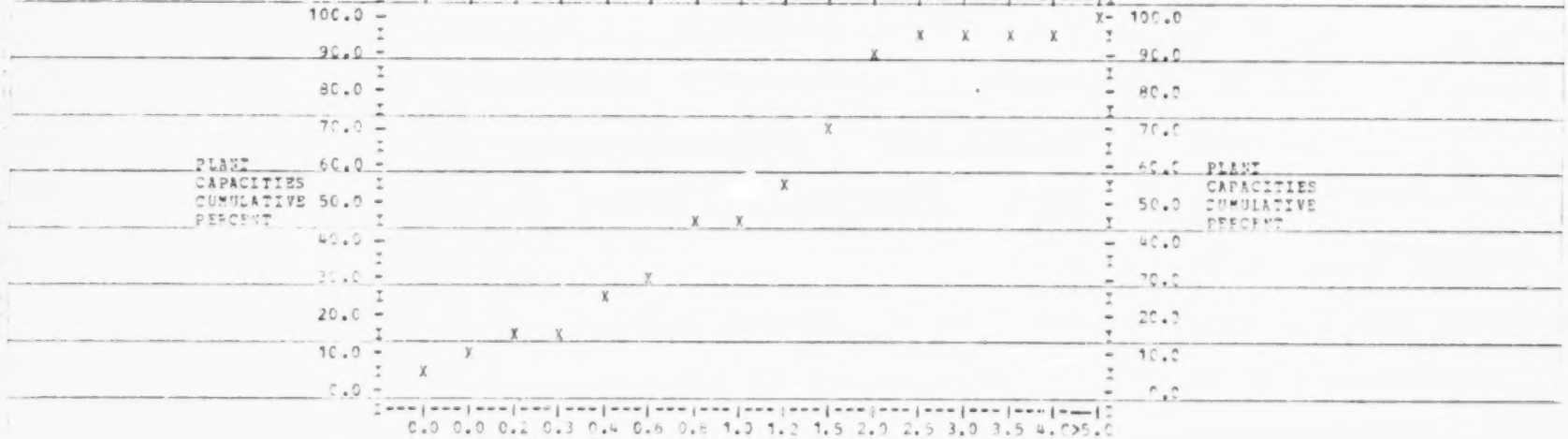


BOILER CAPACITIES (ALL DATA) = 380282.
PLANT CAPACITIES (USE DATA) = 380282.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENTS

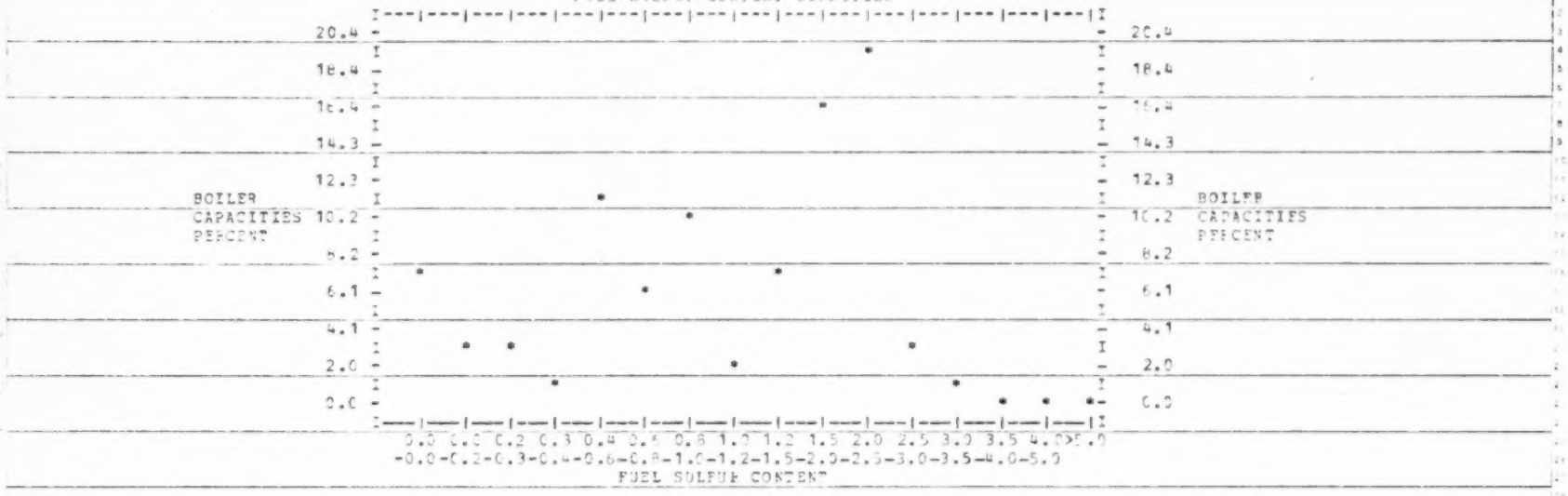


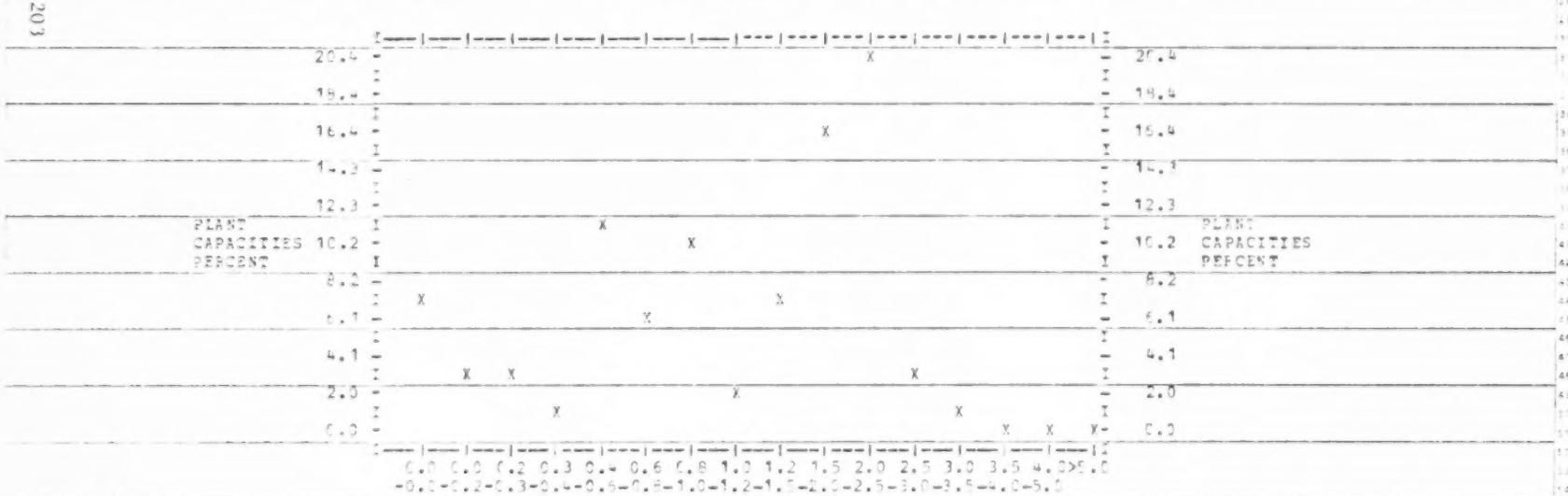
202



BOILER CAPACITIES (FUEL DATA) = 3[illegible]52.
PLANT CAPACITIES (ALL DATA) = 39[illegible]52.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENT DISTRIBUTIONS





BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	219.	131.	319.	2329.	309.	1798.	123.	1187.
11- 20	0.	127.	59.	136.	522.	152.	876.	135.	727.
21- 30	0.	54.	82.	62.	401.	161.	965.	176.	913.
31- 40	0.	12.	71.	91.	693.	244.	307.	165.	1614.
41- 50	0.	12.	86.	42.	490.	227.	1138.	277.	880.
51- 60	0.	11.	8.	77.	518.	3580.	1524.	663.	661.
61- 70	0.	6.	29.	2.	678.	237.	298.	391.	2149.
71- 80	0.	48.	6.	0.	603.	209.	1057.	600.	585.
81- 90	0.	10.	22.	156.	608.	67.	542.	145.	159.
91- 100	0.	733.	772.	0.	217.	243.	1001.	229.	358.
101- 200	0.	208.	146.	149.	2476.	2385.	6048.	2248.	6299.
201- 300	0.	174.	69.	247.	611.	933.	3539.	1489.	2381.
301- 400	0.	154.	14.	0.	1691.	410.	991.	1220.	1973.
401- 500	0.	91.	0.	20.	394.	67.	1182.	35.	5428.
501- 600	0.	0.	27.	0.	0.	1280.	1744.	19.	31.
601- 700	0.	0.	0.	0.	833.	325.	270.	0.	111.
701- 800	0.	0.	0.	0.	5.	0.	0.	0.	978.
801- 900	0.	0.	0.	0.	79.	325.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	410.	0.	0.
1001- 2000	0.	0.	0.	0.	1084.	0.	145.	0.	270.
2001- 3000	0.	0.	0.	0.	177.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	1859.	1526.	1301.	14436.	11250.	23886.	7904.	27108.
CUMUL. TOTALS	0.	1859.	3385.	4686.	19122.	30371.	54257.	62161.	89269.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR		>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	7346.	4795.	591.	109.	0.	10047.	0.	29305.	29305.
11-	20	4557.	5841.	407.	145.	17.	1.	0.	12702.	43007.
21-	30	4785.	6593.	961.	3.	808.	116.	159.	16238.	59245.
31-	40	4992.	7308.	884.	147.	463.	0.	0.	16990.	76235.
41-	50	2134.	5568.	1610.	206.	489.	0.	0.	13211.	89445.
51-	60	1904.	2919.	775.	950.	0.	0.	0.	13589.	103035.
61-	70	1729.	3016.	363.	23.	0.	0.	0.	8913.	111947.
71-	80	2305.	5959.	1241.	192.	0.	709.	0.	13609.	125556.
81-	90	1180.	4477.	789.	0.	0.	1558.	0.	9713.	135268.
91-	100	5267.	5555.	1949.	43.	0.	0.	0.	16367.	151636.
101-	200	13967.	42998.	6601.	3091.	0.	0.	92.	86507.	238143.
201-	300	6658.	27071.	6033.	295.	169.	0.	0.	50266.	288409.
301-	400	7952.	21[illegible].	2721.	3405.	0.	0.	0.	42208.	330617.
401-	500	2772.	7767.	36.	601.	0.	0.	0.	18392.	349009.
501-	600	4306.	456.	1291.	0.	0.	0.	0.	9154.	358163.
601-	700	2104.	13953.	5465.	0.	0.	0.	0.	23060.	381222.
701-	800	3316.	4317.	0.	0.	0.	0.	0.	8616.	389838.
801-	900	425.	0.	1087.	0.	0.	0.	0.	1916.	391754.
901-	1000	0.	0.	0.	0.	0.	0.	0.	414.	392168.
1001-	2000	8721.	7073.	0.	0.	0.	0.	0.	17293.	409461.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	177.	409638.
3001-	4000	21.	0.	0.	0.	0.	0.	0.	21.	409659.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	25.	409684.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	409684.
COLUMN TOTALS		86440.	177333.	32804.	9210.	1946.	12432.	251.	409684.	---
CUMUL. TOTALS		175709.	353042.	385846.	395056.	397002.	409434.	409684.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT MBTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	34.	30.	1.	1256.	66.	1089.	14.	324.
1-	10	0.	132.	36.	290.	135.	79.	209.	93.	485.
11-	20	0.	22.	37.	66.	92.	63.	342.	100.	457.
21-	30	0.	85.	82.	20.	559.	60.	365.	60.	690.
31-	40	0.	25.	17.	0.	171.	231.	410.	64.	556.
41-	50	0.	14.	46.	6.	251.	22.	244.	7.	445.
51-	60	0.	2.	45.	14.	113.	3260.	1564.	480.	677.
61-	70	0.	0.	22.	29.	137.	198.	400.	462.	99.
71-	80	0.	9.	11.	0.	239.	153.	436.	136.	632.
81-	90	0.	2.	9.	10.	164.	51.	360.	0.	278.
91-	100	0.	732.	0.	2.	61.	44.	354.	294.	508.
101-	200	0.	195.	881.	264.	2563.	1361.	2249.	793.	2874.
201-	300	0.	236.	51.	152.	1572.	1046.	3429.	33.	3311.
301-	400	0.	158.	33.	203.	1150.	642.	517.	1022.	2603.
401-	500	0.	90.	0.	82.	1030.	0.	1315.	138.	1482.
501-	600	0.	0.	50.	0.	1387.	104.	2626.	11.	513.
601-	700	0.	0.	0.	0.	310.	71.	519.	21.	111.
701-	800	0.	9.	1.	2.	126.	136.	0.	0.	5974.
801-	900	0.	0.	12.	0.	44.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	501.	0.	0.
1001-	2000	0.	17.	33.	36.	3226.	194.	4211.	4144.	3684.
2001-	3000	0.	0.	0.	0.	0.	2197.	157.	1381.	14.
3001-	4000	0.	0.	0.	0.	0.	1589.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	25.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	1758.	1334.	1177.	14664.	11901.	21298.	9255.	25878.
CUMUL. TOTALS		0.	1758.	3152.	4330.	18994.	30895.	52193.	61448.	87326.

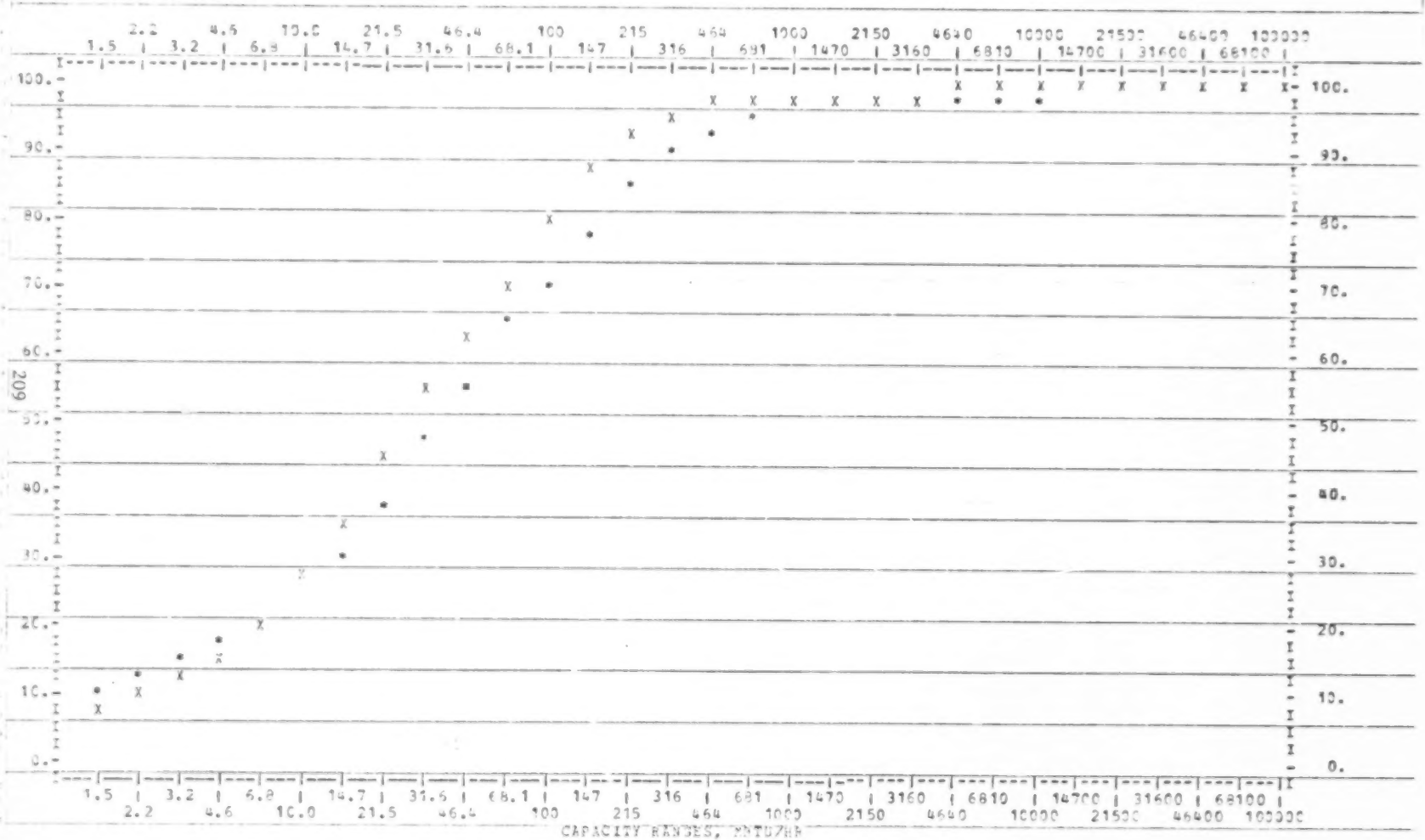
BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	1520.	1991.	316.	33.	0.	0.	0.	6705.	6705.
1-	10	1000.	1483.	154.	76.	0.	0.	0.	4174.	10879.
11-	20	2058.	2400.	336.	5.	17.	0.	0.	5999.	16878.
21-	30	1872.	2882.	820.	138.	0.	1.	0.	7645.	24523.
31-	40	2580.	3732.	504.	135.	88.	0.	0.	8519.	33043.
41-	50	1512.	4424.	930.	211.	0.	0.	0.	8071.	41113.
51-	60	1595.	2814.	896.	0.	0.	0.	0.	11059.	52172.
61-	70	2323.	1432.	250.	23.	0.	116.	0.	5482.	57654.
71-	80	1884.	3756.	907.	105.	0.	0.	0.	8289.	65943.
81-	90	910.	1728.	328.	0.	0.	10756.	83.	14688.	80631.
91-	100	4385.	1103.	860.	0.	0.	0.	0.	8343.	88974.
101-	200	12130.	15184.	3874.	573.	1672.	0.	92.	44827.	133801.
201-	300	7364.	6850.	2102.	1249.	0.	0.	0.	27566.	161367.
301-	400	5982.	8734.	1395.	739.	1586.	0.	0.	24438.	185805.
401-	500	5643.	8913.	760.	601.	166.	0.	0.	20023.	205828.
501-	600	7039.	6486.	4120.	0.	0.	0.	0.	22346.	228174.
601-	700	2565.	9970.	2541.	195.	0.	0.	0.	16302.	244476.
701-	800	2797.	17337.	0.	0.	0.	0.	0.	26382.	271158.
801-	900	5173.	858.	1067.	0.	0.	0.	0.	7227.	278384.
901-	1000	0.	2824.	3129.	0.	0.	0.	0.	6553.	284938.
1001-	2000	16544.	57812.	8776.	885.	0.	0.	0.	99563.	384500.
2001-	3000	0.	5966.	0.	3534.	0.	0.	0.	13249.	397650.
3001-	4000	21.	0.	0.	0.	0.	0.	0.	1610.	399260.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	25.	399285.
5001-	6000	0.	3408.	0.	0.	0.	0.	0.	9408.	408692.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	408692.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	408692.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	408692.
9001-	10000	992.	0.	0.	0.	0.	0.	0.	992.	409685.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	409685.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	409685.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	409685.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	409685.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	409685.
COLUMN TOTALS		87887.	177924.	34067.	7897.	3522.	10873.	175.	409685.	
CUMUL. TOTALS		175213.	353141.	387207.	395104.	398636.	409509.	409685.		

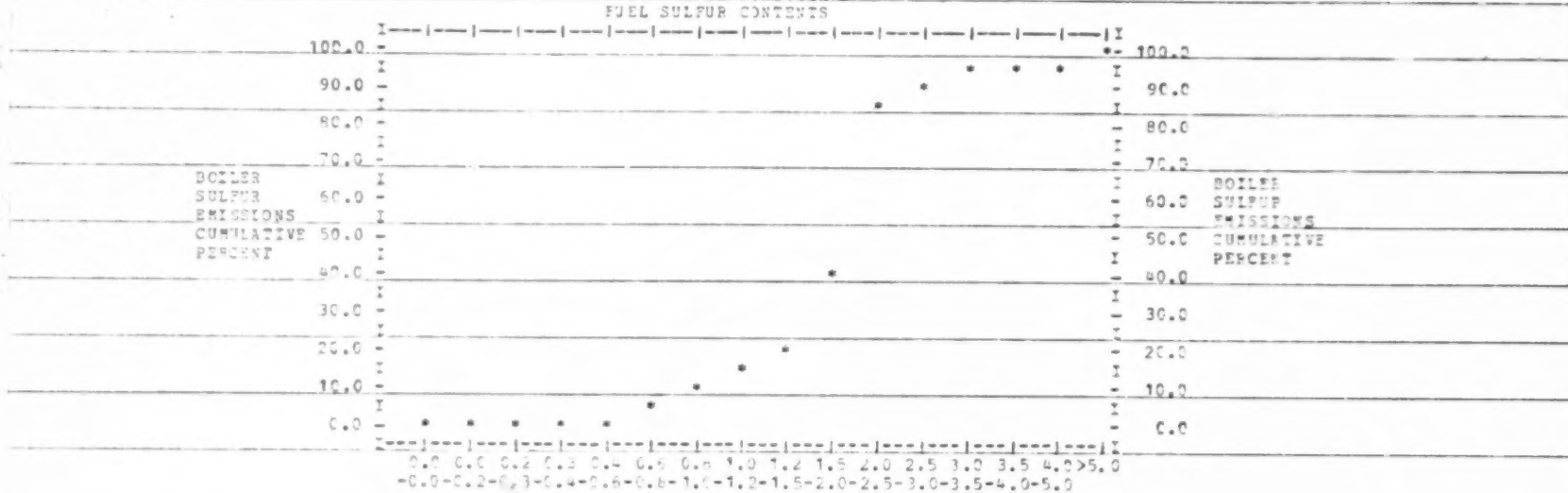
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

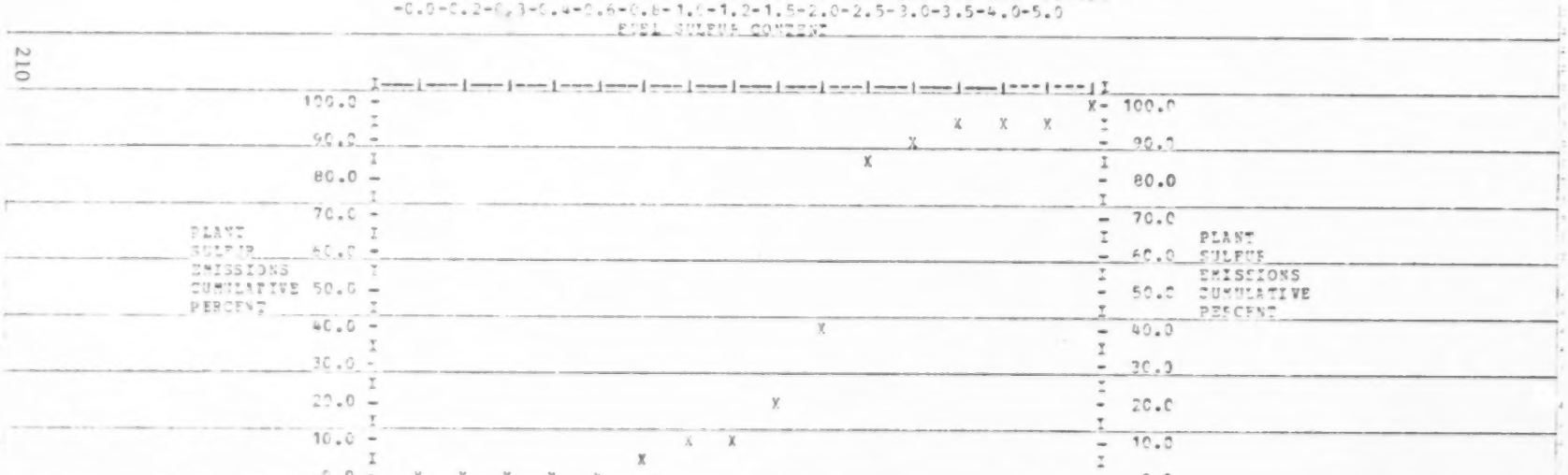
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



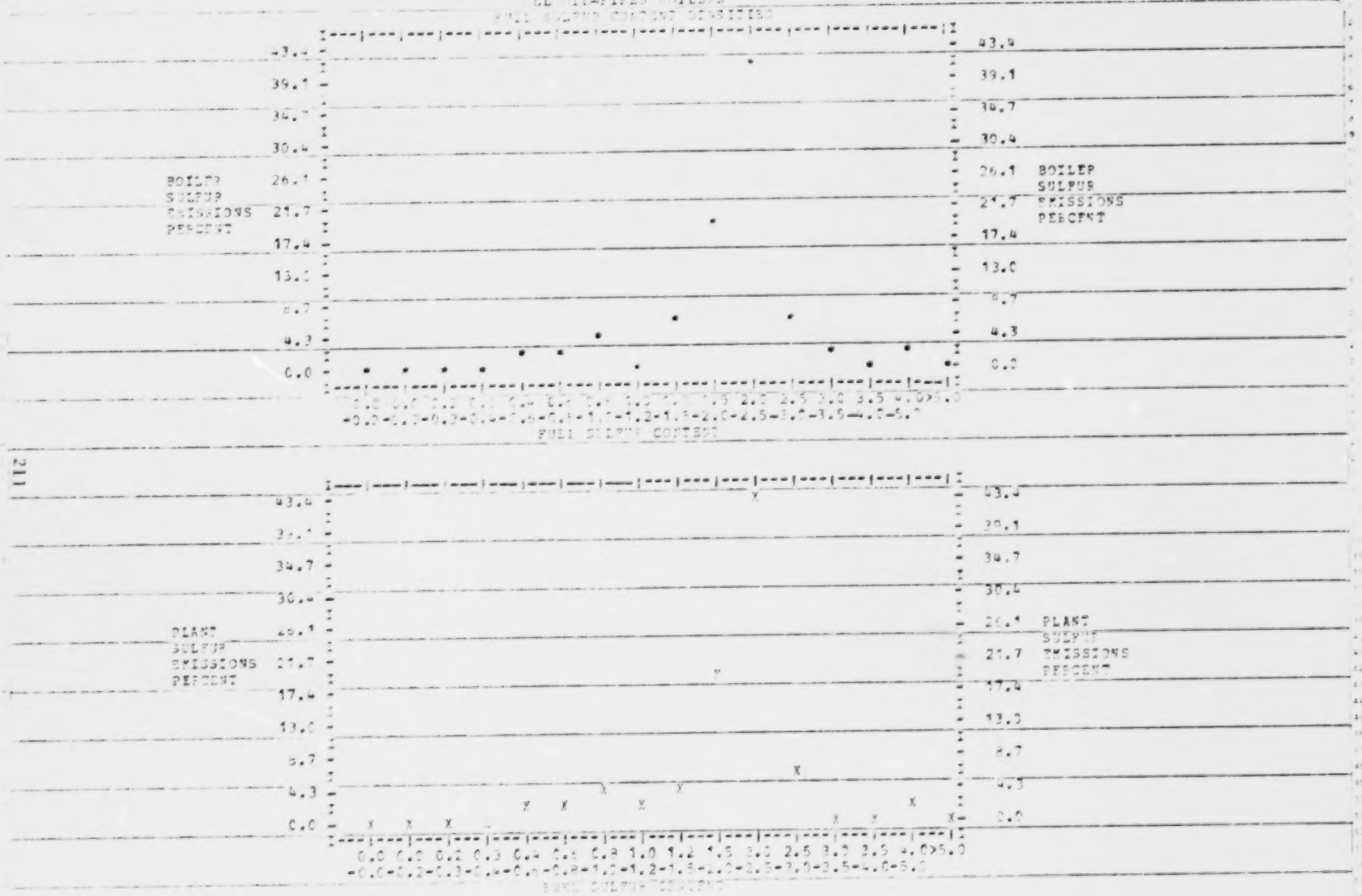
NUMBER OF BOILERS (ALL DATA) = 5404
NUMBER OF PLANTS (ALL DATA) = 2966

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS





NUMBER OF BOILERS (ALL DATA) - 5464
NUMBER OF PLANTS (ALL DATA) - 2944


BOILER SULFUR EMISSIONS PERCENT
43.4
39.1
34.7
30.4
26.1
21.7
17.4
13.0
8.7
4.3
0.0
FUEL SULFUR CONTENT
0.0 0.2 0.3 0.4 0.6 0.8 1.0 1.2 1.5 2.0 2.5 3.0 3.5 4.0 >5.0
-0.0 -0.2 -0.3 -0.4 -0.6 -0.8 -1.0 -1.2 -1.5 -2.0 -2.5 -3.0 -3.5 -4.0 -5.0
BOILER SULFUR EMISSIONS PERCENT
PLANT SULFUR EMISSIONS PERCENT

BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	184854.	5564.	1807.	3139.	16419.	1688.	6893.	398.	3125.
11-	20	617.	3837.	811.	1425.	3912.	739.	3422.	448.	1204.
21-	30	234.	1420.	1180.	595.	2800.	893.	3702.	593.	2393.
31-	40	54.	417.	5498.	834.	5478.	1326.	1224.	533.	4286.
41-	50	23.	693.	1199.	420.	3700.	1279.	4635.	891.	2306.
51-	60	124.	227.	113.	796.	3901.	18843.	5955.	2134.	1746.
61-	70	821.	183.	376.	20.	5112.	1137.	1129.	1472.	5595.
71-	80	141.	1380.	111.	0.	4358.	1538.	4138.	1908.	1449.
81-	90	155.	307.	298.	7630.	4880.	334.	2084.	500.	401.
91-	100	22818.	17232.	10214.	2.	1620.	1197.	10586.	745.	904.
101-	200	2395.	9768.	1962.	1395.	19311.	12074.	26769.	7665.	15901.
201-	300	155363.	4351.	957.	2851.	4570.	4640.	13680.	5158.	7931.
301-	400	0.	3090.	188.	0.	24277.	2381.	3764.	4217.	5208.
401-	500	514.	1750.	0.	181.	3122.	320.	4518.	111.	16475.
501-	600	200.	0.	406.	0.	0.	5806.	6973.	66.	78.
601-	700	0.	0.	0.	0.	6245.	1473.	1028.	0.	296.
701-	800	0.	0.	0.	0.	30.	0.	0.	0.	2585.
801-	900	0.	0.	0.	0.	628.	1473.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	1508.	0.	12.
1001-	2000	0.	0.	0.	0.	8263.	0.	568.	0.	752.
2001-	3000	0.	0.	0.	0.	1126.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	149.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		368012.	46219.	25123.	19208.	119364.	57001.	102706.	26876.	73385.
CUMUL. TOTALS		368012.	414231.	439354.	458562.	577926.	635526.	738233.	765108.	838493.

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	15087.	7887.	844.	128.	0.	9537.	0.	258369.	258369.
11-	20	9120.	9563.	564.	158.	17.	1.	0.	36580.	294958.
21-	30	9541.	11078.	1356.	4.	[illegible]	105.	78.	[illegible]	[illegible]
31-	40	10124.	11832.	1206.	164.	422.	0.	0.	43437.	375195.
41-	50	4168.	8986.	2205.	224.	421.	0.	0.	31132.	406327.
51-	60	4056.	4842.	1079.	1130.	0.	0.	0.	44930.	451257.
61-	70	3403.	5118.	489.	25.	0.	0.	0.	24541.	475798.
71-	80	[illegible]	[illegible]	[illegible]	197.	0.	[illegible]	[illegible]	[illegible]	[illegible]
81-	90	2305.	6907.	1096.	0.	0.	1380.	0.	28280.	532228.
91-	100	10308.	9143.	2781.	51.	0.	0.	0.	87701.	623930.
101-	200	28436.	71506.	9094.	3615.	0.	0.	44.	204940.	828870.
201-	300	13130.	44032.	8493.	324.	163.	0.	0.	265643.	1094512.
301-	400	15465.	35345.	8745.	4200.	0.	0.	0.	[illegible]	[illegible]
401-	500	5926.	13293.	52.	704.	0.	0.	0.	46967.	1242479.
501-	600	8336.	732.	1896.	0.	0.	0.	0.	24465.	1267464.
601-	700	4005.	23427.	8089.	0.	0.	0.	0.	44563.	1312026.
701-	800	7650.	7170.	0.	0.	0.	0.	0.	17436.	1329461.
801-	900	937.	0.	1408.	0.	0.	0.	0.	4445.	1333906.
901-	1000	0.	0.	0.	0.	0.	0.	0.	1520.	1335425.
1001-	2000	17335.	11120.	0.	0.	0.	0.	0.	38039.	1373463.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	1126.	1374589.
3001-	4000	39.	0.	0.	0.	0.	0.	0.	39.	1374628.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	149.	1374777.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	1374777.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	1374777.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	1374777.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	1374777.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	1374777.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	1374777.
COLUMN TOTALS		174129.	231549.	48247.	10726.	1712.	11707.	123.	1374777.	
CUMCOL. TOTALS		1012619.	1304268.	1352514.	1363239.	1364951.	1376658.	1376780.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	179465.	789.	427.	13.	9145.	531.	4126.	45.	905.
1- 10	5330.	3837.	496.	2863.	1004.	446.	829.	299.	1223.
11- 20	350.	592.	503.	768.	655.	326.	1338.	359.	1221.
21- 30	115.	2299.	1103.	205.	4302.	326.	1400.	203.	1801.
31- 40	11.	612.	228.	0.	1274.	1237.	1627.	216.	1423.
41- 50	178.	841.	631.	62.	1941.	125.	927.	23.	1151.
51- 60	58.	67.	700.	145.	835.	17284.	6151.	1573.	1789.
61- 70	450.	29.	286.	307.	1133.	976.	1547.	1702.	276.
71- 80	0.	632.	147.	0.	1780.	861.	1725.	455.	1654.
81- 90	112.	41.	110.	105.	1281.	252.	1345.	0.	743.
91- 100	992.	17197.	5.	20.	484.	239.	1375.	952.	1349.
101- 200	22181.	5302.	11722.	7389.	19614.	7067.	8905.	2570.	7874.
201- 300	583.	5314.	707.	1759.	11966.	18777.	17098.	107.	8715.
301- 400	0.	3161.	455.	1606.	20075.	4432.	2230.	3390.	7059.
401- 500	514.	1738.	0.	973.	8026.	23.	5148.	460.	3892.
501- 600	0.	0.	669.	0.	11173.	577.	10143.	38.	1396.
601- 700	0.	0.	0.	0.	2349.	350.	1986.	70.	296.
701- 800	154780.	282.	7.	28.	842.	646.	0.	0.	17463.
801- 900	0.	0.	155.	0.	661.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	2015.	0.	0.
1001- 2000	200.	429.	512.	337.	24762.	1053.	16779.	14341.	9676.
2001- 3000	0.	0.	0.	0.	1.	11548.	610.	5021.	35.
3001- 4000	0.	0.	0.	0.	0.	7322.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	149.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	365319.	43064.	18864.	16881.	123461.	74393.	87302.	31824.	69961.
CUMUL. TOTALS	365319.	408383.	427247.	444128.	567589.	641968.	729290.	761114.	831074.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

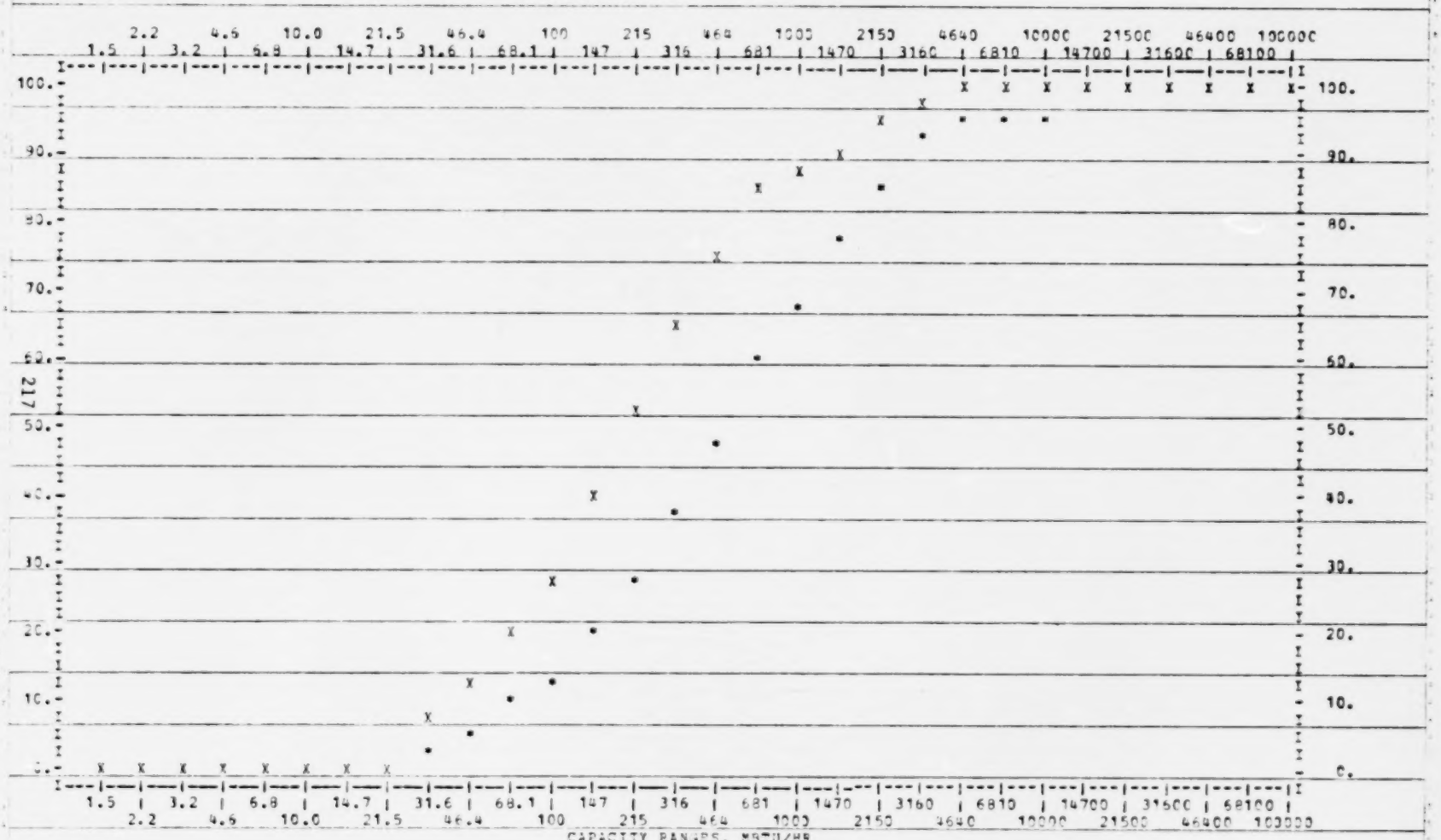
TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMULATIVE ALL
EQUAL	0	3021.	3406.	462.	36.	0.	0.	0.	202370.	202370.
1-	10	2011.	2407.	217.	92.	0.	0.	0.	21053.	223423.
11-	20	4147.	3300.	474.	6.	17.	0.	0.	14637.	238060.
21-	30	3490.	4797.	1155.	150.	0.	1.	0.	21766.	259825.
31-	40	5134.	6039.	719.	150.	95.	0.	0.	18826.	278650.
41-	50	3093.	7542.	1234.	231.	0.	0.	0.	18018.	296668.
51-	60	3180.	4103.	1230.	0.	0.	0.	0.	37122.	333790.
61-	70	4513.	2340.	336.	25.	0.	105.	0.	14074.	347865.
71-	80	4134.	6092.	1355.	121.	0.	2.	0.	18063.	365928.
81-	90	1771.	2228.	471.	0.	0.	10221.	38.	18718.	384646.
91-	100	8512.	1882.	1287.	0.	0.	0.	0.	34264.	418910.
101-	200	24757.	24817.	5276.	669.	1436.	0.	44.	149424.	568334.
201-	300	14574.	11260.	2488.	1454.	0.	0.	0.	95321.	664654.
301-	400	11765.	14528.	1983.	195.	1621.	0.	0.	72638.	737293.
401-	500	11549.	14501.	1017.	704.	163.	0.	0.	48753.	786046.
501-	600	13700.	10658.	6003.	0.	0.	0.	0.	54357.	840352.
601-	700	5212.	16152.	3621.	218.	0.	0.	0.	30254.	870607.
701-	800	5336.	29231.	0.	0.	0.	0.	0.	208674.	1079280.
801-	900	10891.	1377.	1408.	0.	0.	0.	0.	14491.	1093770.
901-	1000	0.	5332.	4765.	0.	0.	0.	0.	12111.	1105881.
1001-	2000	33536.	95826.	12531.	963.	0.	0.	0.	210945.	1316826.
2001-	3000	0.	10837.	0.	4204.	0.	0.	0.	32256.	1349082.
3001-	4000	39.	0.	0.	0.	0.	0.	0.	7362.	1356443.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	149.	1356592.
5001-	6000	0.	16041.	0.	0.	0.	0.	0.	16041.	1372632.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	1372632.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	1372632.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	1372632.
9001-	10000	2148.	0.	0.	0.	0.	0.	0.	2148.	1374780.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	1374780.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	1374780.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	1374780.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	1374780.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	1374780.
COLUMN TOTALS		177068.	295208.	48101.	9190.	3333.	10327.	83.	1374780.	
CUMUL. TOTALS		1008142.	1303350.	1351851.	1361040.	1364372.	1374699.	1374781.		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

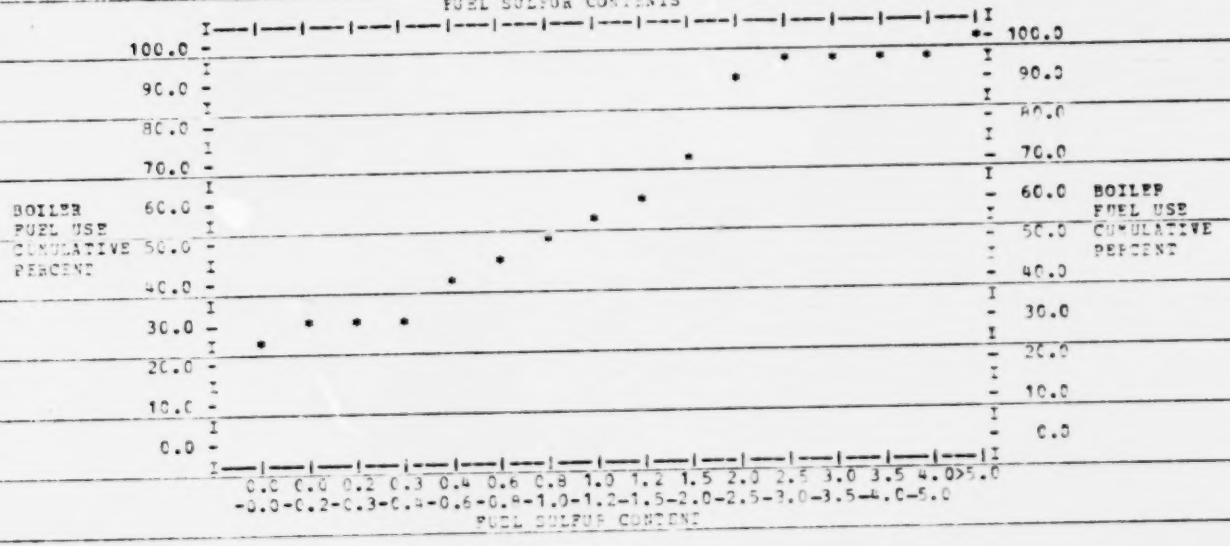
CAPACITY RANGES, MBTU/HR

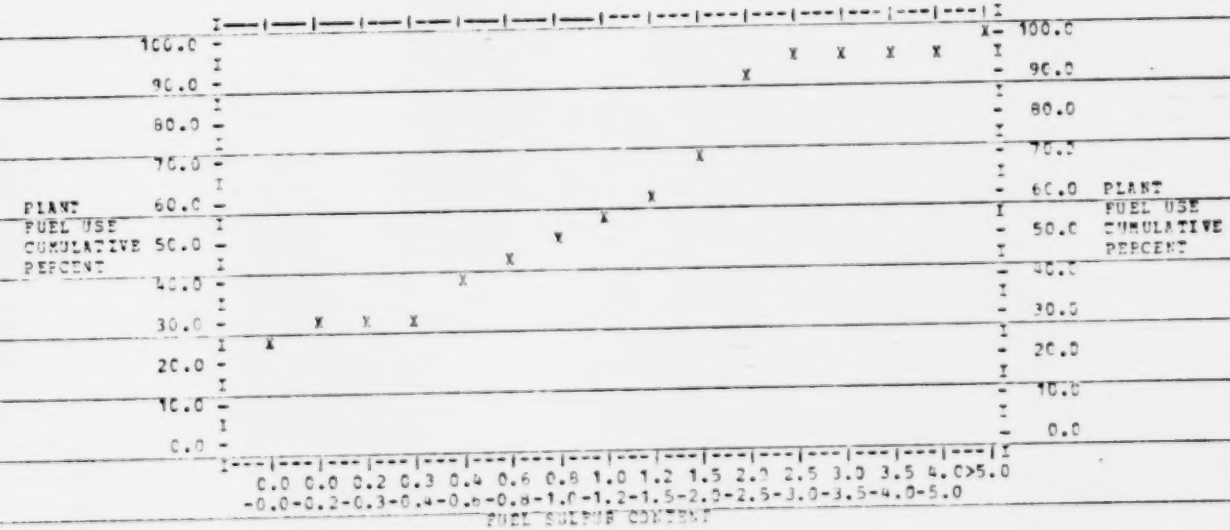


CAPACITY RANGES, MBTU/HR

BOILER CAPACITIES (ALL DATA) = 385252.
PLANT CAPACITIES (ALL DATA) = 385252.

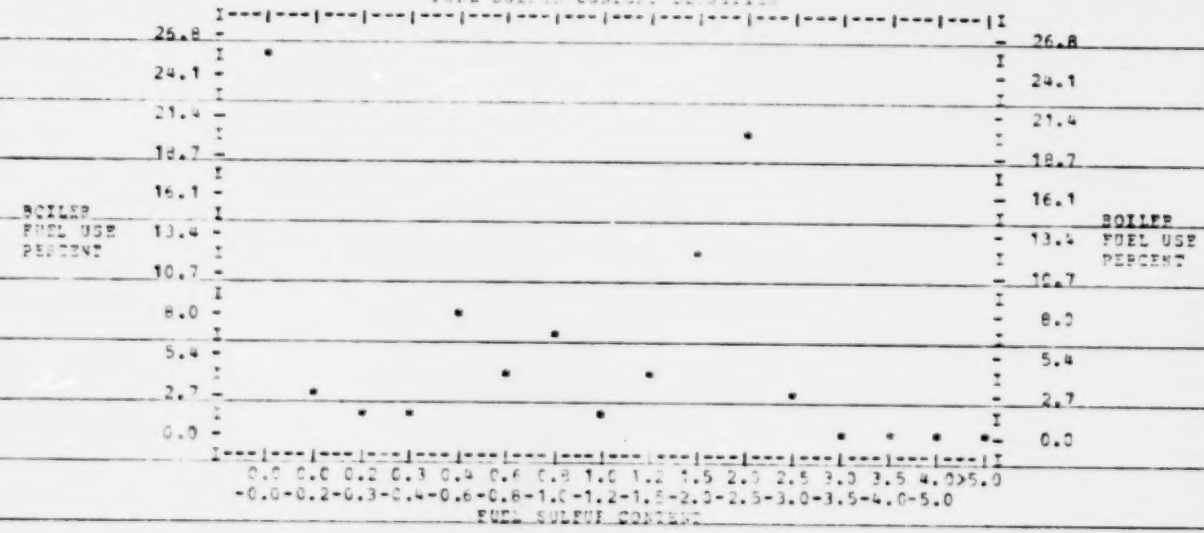
BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENTS

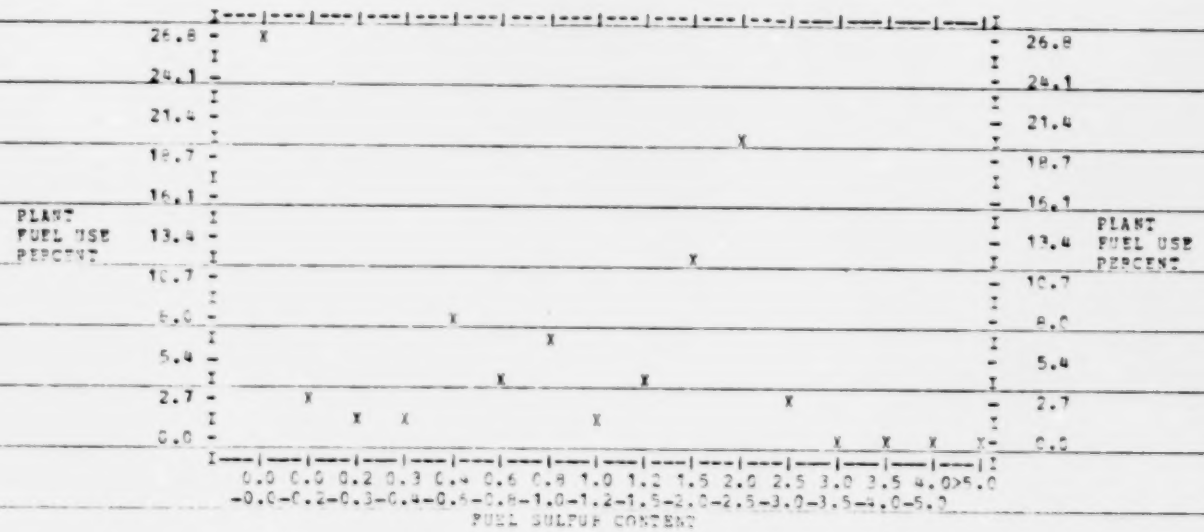




BOILER CAPACITIES (ALL DATA) = 385252.
PLANT CAPACITIES (ALL DATA) = 385252.

BOILER POPULATION DATA - INDUSTRIAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = [illegible]
PLANT CAPACITIES (ALL DATA) = [illegible]

BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY KLBS*S/HR		STACK HEIGHTS IN FEET														
		EQUAL ZERO	1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
EQUAL	0	151	13	38	24	15	12	2	3	6	6	2	5	5	2	0
1-	10	220	154	352	109	78	29	12	7	6	3	1	2	1	0	0
11-	20	89	44	157	70	45	45	8	19	15	9	2	0	0	0	0
21-	30	49	19	122	61	41	21	18	17	11	3	6	4	0	1	0
31-	40	53	10	61	36	31	30	16	16	12	11	7	1	0	0	0
41-	50	35	7	44	34	24	22	6	7	8	11	4	0	0	0	0
51-	60	13	7	36	27	18	4	7	12	11	4	1	3	0	0	0
61-	70	13	2	27	13	12	9	1	11	5	5	2	1	0	0	0
71-	80	12	3	15	24	21	9	9	4	8	7	3	0	1	0	0
81-	90	12	0	12	11	3	10	4	3	7	1	5	1	0	0	0
91-	100	7	0	7	15	17	7	9	8	11	3	6	6	3	0	1
101-	200	44	2	49	71	51	37	21	24	32	21	20	26	3	1	0
201-	300	21	1	12	21	19	16	16	15	26	21	15	20	1	0	0
301-	400	5	0	5	8	7	14	6	9	10	11	7	7	0	0	0
401-	500	3	1	3	4	6	8	4	1	8	5	1	7	0	0	0
501-	600	4	0	2	3	3	7	2	6	4	2	3	6	2	1	0
601-	700	1	0	0	1	4	1	3	3	2	2	1	1	0	0	0
701-	800	3	0	1	0	1	0	4	2	2	2	3	2	1	0	0
801-	900	0	0	0	2	0	0	3	2	2	2	0	3	0	0	0
901-	1000	0	0	0	0	0	0	3	1	1	0	1	1	0	0	0
1001-	2000	2	0	2	1	2	4	3	3	1	5	3	4	1	0	1
2001-	3000	0	0	1	0	1	0	1	0	4	1	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5001-	6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		737	263	947	532	399	286	152	173	194	136	90	99	18	5	3
RUNNING TOTALS		0	263	1210	1742	2141	2427	2579	2752	2946	3082	3172	3271	3289	3294	3297

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BOILER POPULATION DATA - INDUSTRIAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY (1) MBTUS/HR		STACK HEIGHTS IN FEET 401- 450	451- 500	501- 550	551- 600	601- 650	651- 700	701- 750	751- 800	801- 850	851- 900	901- 950	951- 1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	0
1-	10	0	1	0	0	0	0	0	0	0	0	0	0	0	975	975
11-	20	0	0	0	0	0	0	0	0	0	0	0	0	0	503	1478
21-	30	0	0	0	0	0	0	0	0	0	0	0	0	0	371	1849
31-	40	0	0	0	0	0	0	0	0	0	0	0	0	0	278	2127
41-	50	0	0	0	0	0	0	0	0	0	0	0	0	0	206	2333
51-	60	0	0	0	0	0	0	0	0	0	0	0	0	0	143	2476
61-	70	0	0	0	0	0	0	0	0	0	0	0	0	0	101	2577
71-	80	0	0	0	0	0	0	0	0	0	0	0	0	0	116	2693
81-	90	0	0	0	0	0	0	0	0	0	0	0	0	0	69	2762
91-	100	0	0	0	0	0	0	0	0	0	0	0	0	0	98	2860
101-	200	0	0	0	0	0	0	0	0	0	0	0	0	0	402	3262
201-	300	0	0	0	0	0	0	0	0	0	0	0	0	0	204	3466
301-	400	0	0	0	0	0	0	0	0	0	0	0	0	0	92	3558
401-	500	1	0	0	0	0	0	0	0	0	0	0	0	0	52	3610
501-	600	0	0	0	0	0	0	0	0	0	0	0	0	0	42	3652
601-	700	0	0	0	0	0	0	0	0	0	0	0	0	0	19	3671
701-	800	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3692
801-	900	0	0	0	0	0	0	0	0	0	0	0	0	0	11	3703
901-	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3710
1001-	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	32	3742
2001-	3000	0	0	0	0	0	0	0	0	0	0	0	0	0	8	3750
3001-	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3751
4001-	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3752
5001-	6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
6001-	7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
7001-	8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
8001-	9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
9001-	10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
10001-	20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
20001-	30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
30001-	40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
40001-	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
50001-	100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3752
TOTALS	TOTALS	1	1	0	0	0	0	0	0	0	0	0	0	0	4036	3752
		3299	3299	3299	3299	3299	3299	3299	3299	3299	3299	3299	3299	3299		

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL OIL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR RANGE

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	1.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.27	1.23	1.24	1.23	1.34	1.14	1.21	1.05	1.21
11-	20	1.64	2.00	1.44	1.31	1.43	1.30	1.69	1.50	1.25
21-	30	2.50	2.38	1.83	1.86	1.58	2.21	1.73	1.42	2.50
31-	40	2.00	1.78	2.00	1.89	1.70	3.47	1.40	2.00	1.00
41-	50	1.40	1.0	2.17	1.00	1.50	1.64	1.75	1.00	1.33
51-	60	3.38	1.83	2.00	1.33	2.07	1.80	2.00	2.75	1.25
61-	70	2.00	2.50	1.67	2.86	1.78	2.25	2.40	1.00	2.50
71-	80	3.38	2.38	2.00	2.07	1.00	2.50	2.80	2.00	2.00
81-	90	5.20	2.14	1.67	1.63	2.00	1.00	3.00	0.33	0.0
91-	100	1.0	1.0	0.0	1.00	1.0	3.00	0.0	0.0	1.00
101-	200	5.11	2.67	2.43	2.00	2.38	3.06	3.00	3.09	2.00
201-	300	3.00	2.33	2.00	2.64	3.14	3.07	4.17	3.25	2.40
301-	400	5.20	2.75	3.57	3.33	2.25	4.14	3.00	4.75	6.00
401-	500	6.00	3.15	2.33	2.00	3.17	3.07	3.33	1.00	4.25
501-	600	2.50	3.25	7.00	4.00	7.25	1.00	1.00	5.00	0.0
601-	700	4.00	4.75	3.50	0.0	5.33	2.00	7.50	0.0	0.0
701-	800	0.0	6.00	0.0	10.00	10.00	5.00	0.0	4.00	0.0
801-	900	5.00	4.00	0.0	0.0	0.0	0.0	0.0	0.0	8.00
901-	1000	0.0	8.00	0.0	10.00	0.0	0.0	4.50	0.0	0.0
1001-	2000	3.33	4.73	10.00	0.0	3.00	10.25	4.57	6.50	13.50
2001-	3000	0.0	4.33	8.00	0.00	0.0	0.0	4.00	0.0	0.0
3001-	4000	0.0	8.00	0.0	12.00	0.0	0.0	0.0	0.0	0.0
4001-	5000	0.0	12.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COUNTY TOTALS		2.03	2.35	2.10	1.96	1.95	2.10	2.23	2.01	2.53
CYCLE TOTALS		0.0	2.35	2.20	2.22	2.17	2.19	2.20	2.21	2.22

BOILER POPULATION DATA - INDUSTRIAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL OIL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.0	0.0	1.97	0.0	1.94	1.98	0.0	0.0
1-	10	1.36	1.60	1.24	0.0	1.61	1.27	1.24	1.27
11-	20	1.27	1.22	1.60	0.0	1.82	1.61	1.37	1.39
21-	30	1.20	2.27	2.06	0.0	1.33	2.04	1.52	1.53
31-	40	3.33	1.50	2.00	0.0	1.83	2.00	1.59	1.60
41-	50	2.00	4.50	1.89	0.0	2.60	1.92	1.62	1.63
51-	60	1.67	0.0	1.94	0.0	2.40	1.96	1.65	1.65
61-	70	1.00	2.00	2.24	0.0	2.50	2.24	1.68	1.68
71-	80	1.00	1.00	2.30	0.0	1.83	2.26	1.70	1.71
81-	90	0.0	0.0	2.60	0.0	3.00	2.61	1.73	1.73
91-	100	1.67	2.00	2.11	0.0	1.25	2.09	1.74	1.74
101-	200	2.00	5.00	2.79	0.0	4.30	2.86	1.89	1.90
201-	300	2.00	0.0	2.93	0.0	4.00	2.96	1.96	1.97
301-	400	2.00	1.00	3.36	0.0	1.33	3.29	2.01	2.02
401-	500	1.00	0.0	3.19	0.0	3.00	3.16	2.04	2.04
501-	600	6.67	5.00	3.86	0.0	0.0	3.86	2.07	2.07
601-	700	0.0	3.00	5.05	0.0	5.00	5.05	2.09	2.09
701-	800	5.00	0.0	7.17	0.0	5.00	6.86	2.13	2.13
801-	900	0.0	0.0	3.80	0.0	0.0	3.80	2.13	2.14
901-	1000	0.0	0.0	6.20	0.0	0.0	6.20	2.14	2.14
1001-	2000	3.00	11.00	6.63	0.0	0.0	6.63	2.23	2.23
2001-	3000	0.0	0.0	5.88	0.0	0.0	5.88	2.24	2.24
3001-	4000	0.0	0.0	12.33	0.0	0.0	12.33	2.25	2.25
4001-	5000	0.0	0.0	1.00	0.0	0.0	1.00	2.25	2.25
5001-	6000	0.0	0.0	8.00	0.0	0.0	8.00	2.25	2.25
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
9001-	10000	0.0	0.0	8.00	0.0	0.0	8.00	2.25	2.25
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	2.25	2.25
COLUMN TOTALS		1.94	2.56	2.25	0.0	2.02	2.05		
CUMUL. TOTALS		2.21	2.22	2.22	2.22	2.20			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	121	0	0	0	0	0	0	0	0
1-	10	79	299	351	224	91	48	49	24	16
11-	20	15	84	96	75	46	25	13	17	9
21-	30	13	48	80	51	29	19	14	4	1
31-	40	6	22	46	27	12	13	7	5	1
41-	50	7	21	27	25	15	8	7	5	2
51-	60	8	7	17	18	17	7	5	1	0
61-	70	1	14	15	16	12	4	0	4	1
71-	80	5	9	22	12	13	3	1	3	0
81-	90	1	6	9	5	3	1	2	0	1
91-	100	2	9	11	15	7	6	1	1	0
101-	200	5	18	33	23	12	11	4	1	1
201-	300	0	8	7	5	2	2	0	2	0
301-	400	0	3	6	1	3	0	0	0	0
401-	500	0	4	2	1	2	0	0	0	0
501-	600	0	3	0	2	1	0	0	0	0
601-	700	0	0	0	1	0	0	0	0	0
701-	800	0	0	0	0	0	0	0	0	0
801-	900	0	1	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	1	1	0	0	0	0	0	0
2001-	3000	0	1	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		263	558	723	521	265	147	103	67	32
CUMUL. TOTALS		0	558	1281	1782	2047	2194	2297	2364	2396

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	121	0	200	321	0	0
1-	10	14	23	1218	0	96	1314	1218	1314
11-	20	6	12	400	0	13	413	1618	1727
21-	30	4	8	271	0	11	282	1889	2009
31-	40	4	3	146	0	10	156	2035	2165
41-	50	1	1	119	0	0	119	2154	2284
51-	60	0	1	81	0	5	86	2235	2370
61-	70	0	0	67	0	1	68	2302	2438
71-	80	1	0	69	0	0	69	2371	2507
81-	90	2	0	30	0	0	30	2401	2537
91-	100	1	2	55	0	2	57	2456	2594
101-	200	1	1	110	0	5	115	2566	2709
201-	300	0	0	26	0	0	26	2592	2735
301-	400	0	0	13	0	0	13	2605	2748
401-	500	0	0	9	0	2	11	2614	2759
501-	600	0	0	6	0	0	6	2620	2765
601-	700	0	0	1	0	0	1	2621	2766
701-	800	0	0	0	0	1	1	2621	2767
801-	900	0	0	1	0	0	1	2622	2768
901-	1000	0	0	0	0	0	0	2622	2768
1001-	2000	0	0	2	0	0	2	2624	2770
2001-	3000	0	0	1	0	0	1	2625	2771
3001-	4000	0	0	0	0	0	0	2625	2771
4001-	5000	0	0	0	0	0	0	2625	2771
5001-	6000	0	0	0	0	0	0	2625	2771
6001-	7000	0	0	0	0	0	0	2625	2771
7001-	8000	0	0	0	0	0	0	2625	2771
8001-	9000	0	0	0	0	0	0	2625	2771
9001-	10000	0	0	0	0	0	0	2625	2771
10001-	100000	0	0	0	0	0	0	2625	2771
COLUMN TOTALS		36	51	2746	0	346	3092		
CUMUL. TOTALS		2432	2483	2483	2483	2829			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	59	0	0	0	0	0	0	0	0
1-	10	20	214	182	91	36	27	20	10	7
11-	20	1	41	36	26	22	12	5	8	3
21-	30	1	25	42	16	16	5	7	4	2
31-	40	1	14	26	11	5	5	4	2	1
41-	50	1	13	19	21	8	6	5	2	2
51-	60	0	9	11	16	6	2	3	2	0
61-	70	0	6	10	8	2	2	2	0	1
71-	80	2	3	15	5	1	0	1	2	1
81-	90	0	4	7	6	1	0	1	0	1
91-	100	0	1	6	6	7	0	1	1	0
101-	200	7	12	31	20	15	13	6	1	1
201-	300	2	5	14	13	7	3	0	0	0
301-	400	0	4	7	4	1	2	0	0	0
401-	500	1	3	4	4	4	1	1	0	0
501-	600	0	2	0	1	1	0	0	0	0
601-	700	0	0	1	3	1	1	1	0	0
701-	800	0	0	1	0	2	0	1	0	0
801-	900	0	1	1	1	0	0	0	0	0
901-	1000	0	0	1	0	0	0	0	0	0
1001-	2000	0	2	3	0	0	0	0	0	0
2001-	3000	0	1	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		95	360	417	260	135	79	63	32	19
CUMUL. TOTALS		0	360	777	1037	1172	1251	1314	1346	1365

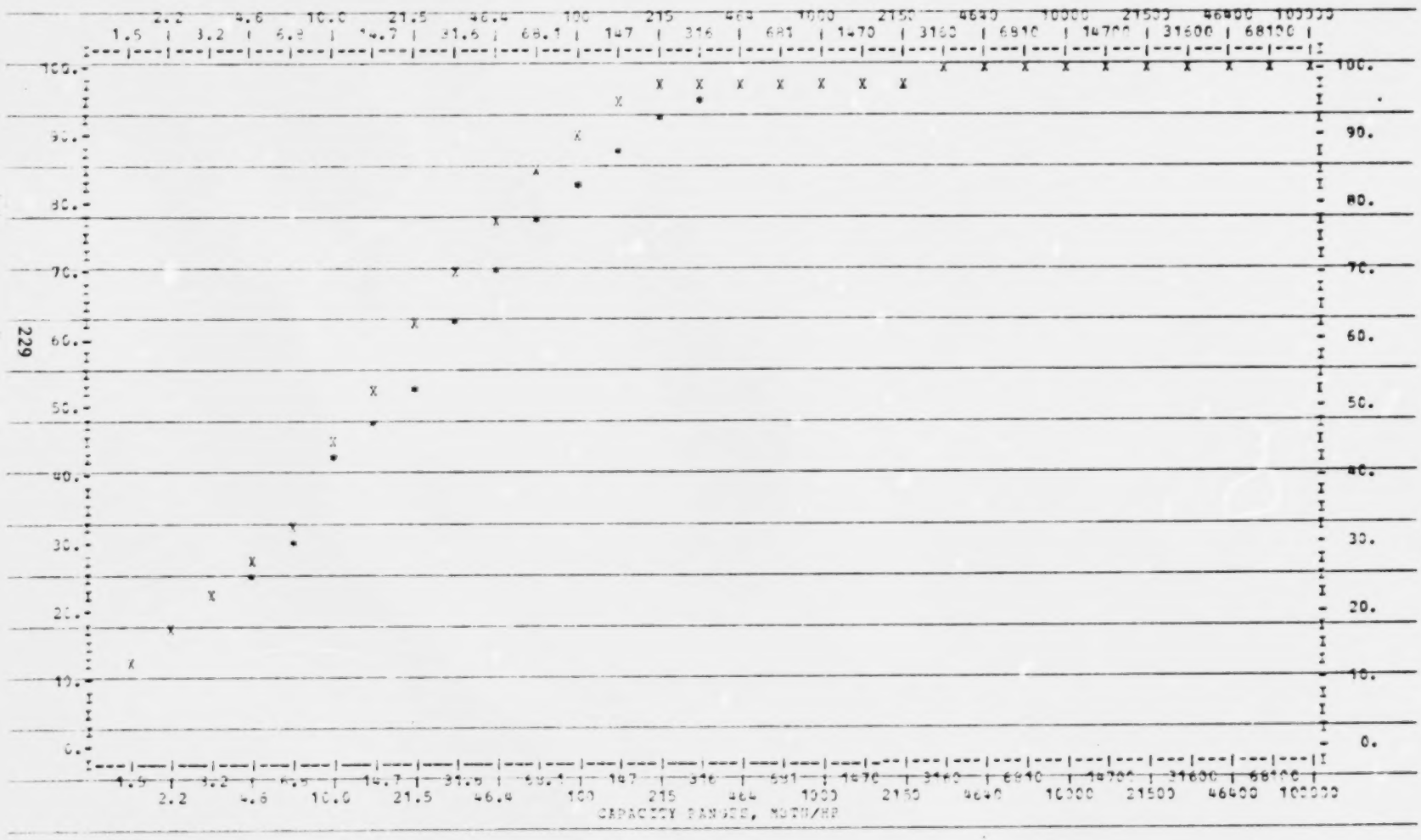
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU*S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	59	0	111	170	0	0
1-	10	5	12	624	0	58	682	624	682
11-	20	1	3	158	0	7	165	782	847
21-	30	2	3	123	0	9	132	905	979
31-	40	1	2	72	0	6	78	977	1057
41-	50	2	3	82	0	2	84	1059	1141
51-	60	1	1	56	0	3	59	1115	1200
61-	70	2	0	33	0	0	33	1148	1233
71-	80	0	0	30	0	0	30	1178	1263
81-	90	2	0	22	0	0	22	1200	1285
91-	100	1	1	26	0	1	27	1226	1312
101-	200	1	2	115	0	6	121	1341	1433
201-	300	0	0	44	0	0	44	1385	1477
301-	400	0	0	18	0	2	20	1403	1497
401-	500	0	0	18	0	0	18	1421	1515
501-	600	0	0	4	0	0	4	1425	1519
601-	700	0	0	7	0	0	7	1432	1526
701-	800	0	0	4	0	0	4	1436	1530
801-	900	0	0	3	0	0	3	1439	1533
901-	1000	0	0	1	0	1	2	1440	1535
1001-	2000	0	0	5	0	0	5	1445	1540
2001-	3000	0	0	1	0	0	1	1446	1541
3001-	4000	0	0	0	0	0	0	1446	1541
4001-	5000	0	0	0	0	0	0	1446	1541
5001-	6000	0	0	0	0	0	0	1446	1541
6001-	7000	0	0	0	0	0	0	1446	1541
7001-	8000	0	0	0	0	0	0	1446	1541
8001-	9000	0	0	0	0	0	0	1446	1541
9001-	10000	0	0	0	0	0	0	1446	1541
10001-	20000	0	0	0	0	0	0	1446	1541
20001-	30000	0	0	0	0	0	0	1446	1541
30001-	40000	0	0	0	0	0	0	1446	1541
40001-	50000	0	0	0	0	0	0	1446	1541
50001-	100000	0	0	0	0	0	0	1446	1541
COLUMN TOTALS		18	27	1505	0	206	1711		
CUMUL. TOTALS		1383	1410	1410	1410	1616			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



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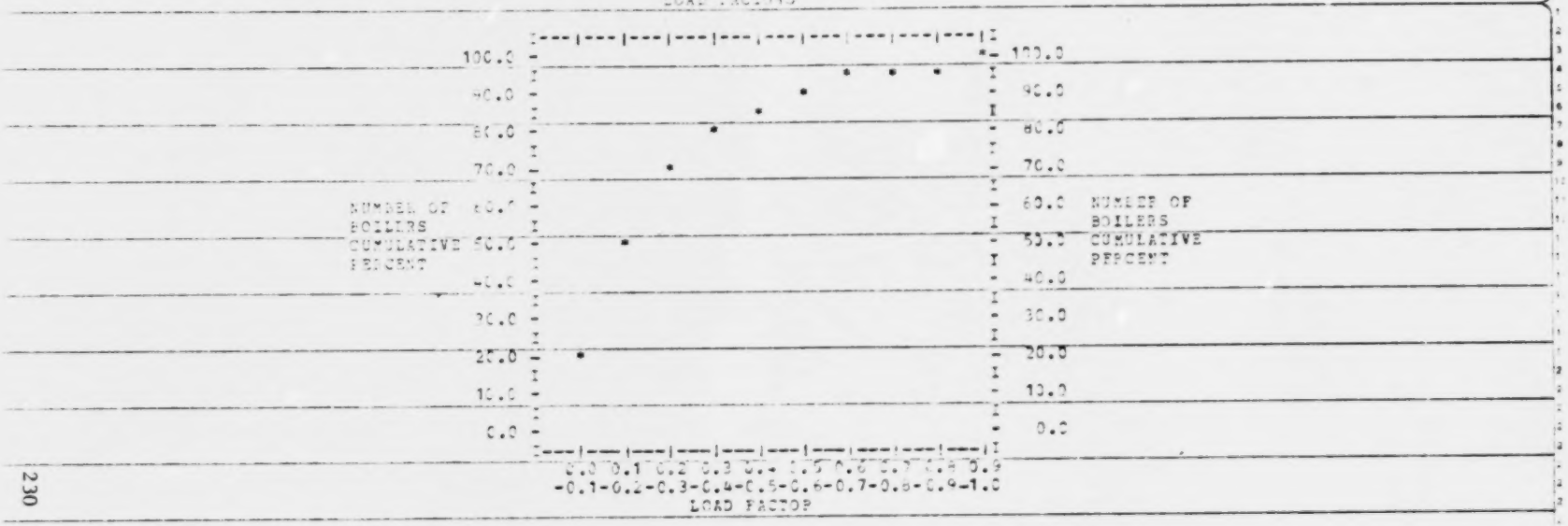
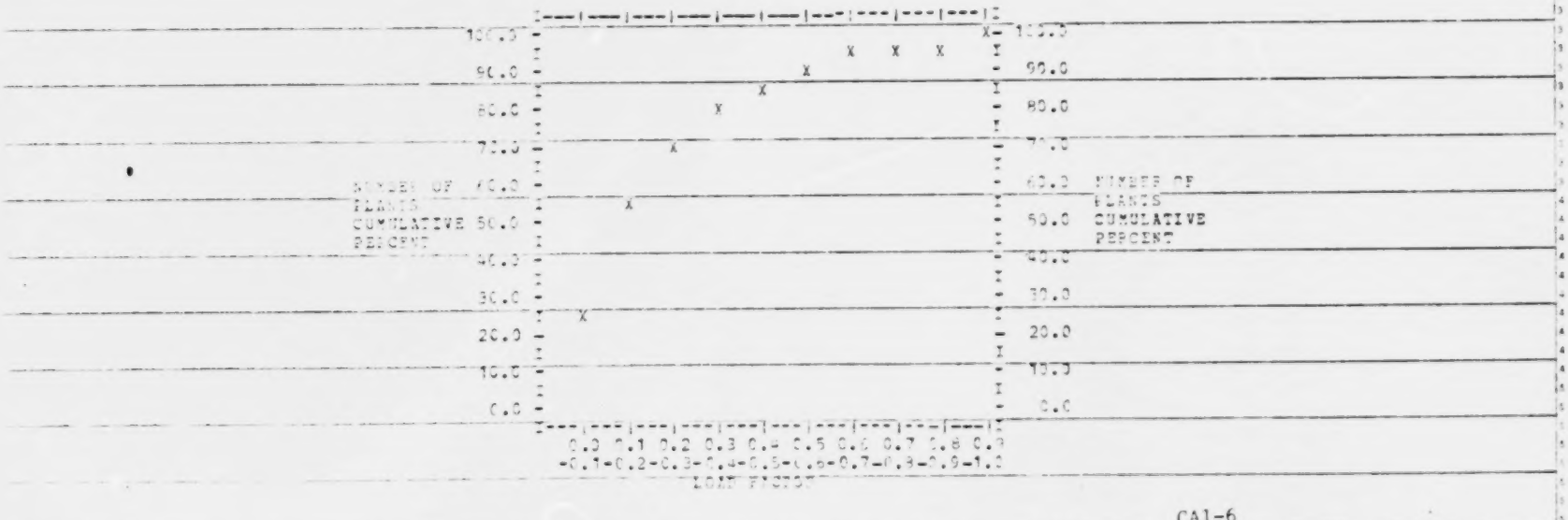
NUMBER OF PLANTS (ALL DATA) = 1711 NUMBER OF PLANTS (RELIABLE DATA) = 1410

CA1-5

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTORS





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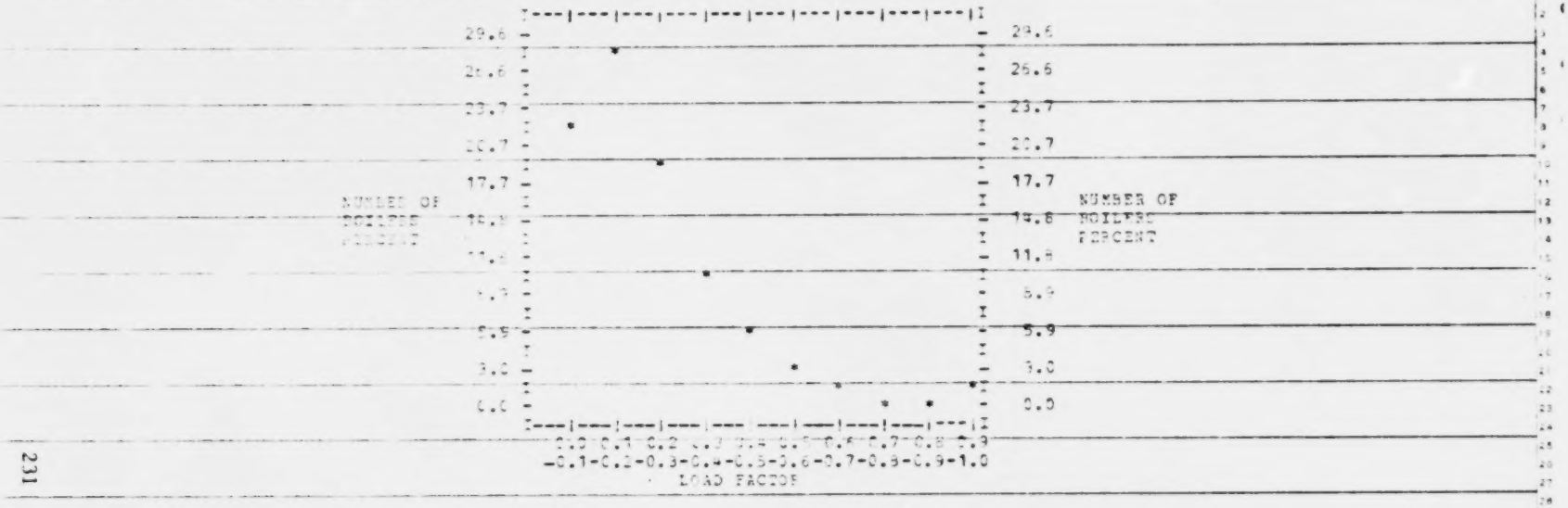
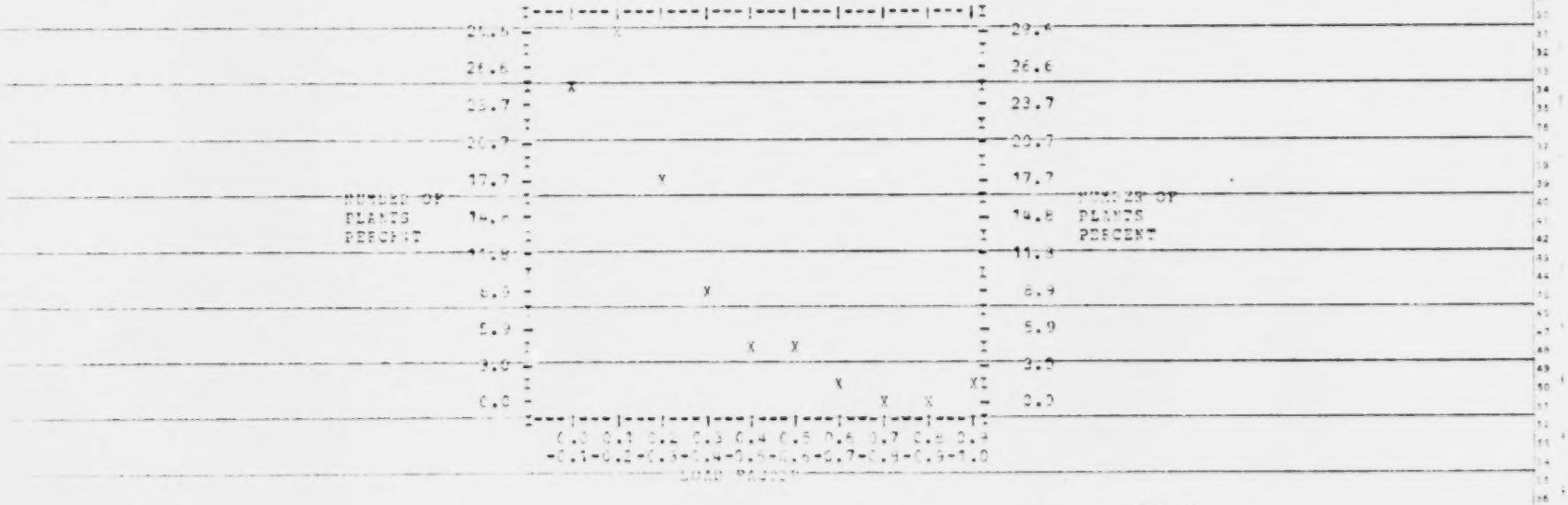
NUMBER OF PLANTS (ALL DATA) = 1711 NUMBER OF PLANTS (RELIABLE DATA) = 1410

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTOR DENSITIES





BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

BOILER LOAD FACTORS

CAPACITY MBTU'S/HR	EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	245.	1476.	1243.	858.	348.	179.	206.	88.	103.
11- 20	247.	1170.	1493.	1126.	714.	403.	201.	274.	145.
21- 30	337.	1220.	2053.	1297.	756.	472.	352.	112.	23.
31- 40	221.	775.	1629.	966.	411.	453.	253.	182.	40.
41- 50	325.	969.	1251.	1147.	721.	274.	335.	245.	99.
51- 60	472.	392.	958.	1026.	950.	387.	278.	60.	0.
61- 70	62.	926.	972.	1067.	787.	256.	0.	256.	67.
71- 80	374.	676.	1642.	895.	1007.	234.	80.	227.	0.
81- 90	85.	509.	766.	420.	270.	85.	172.	0.	90.
91- 100	196.	889.	1081.	1458.	680.	588.	100.	100.	0.
101- 200	841.	2501.	4399.	2952.	1715.	1497.	534.	146.	120.
201- 300	0.	2134.	1714.	1483.	512.	424.	0.	430.	0.
301- 400	0.	993.	2125.	380.	983.	0.	0.	0.	0.
401- 500	0.	1742.	858.	450.	822.	0.	0.	0.	0.
501- 600	0.	1715.	0.	1120.	520.	0.	0.	0.	0.
601- 700	0.	0.	0.	672.	0.	0.	0.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	0.
801- 900	0.	885.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	1750.	1904.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	2626.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	3405.	23348.	24073.	17318.	11196.	5356.	2511.	2120.	687.
CUMUL. TOTALS	0.	23348.	47421.	64739.	75935.	81291.	83802.	85922.	86609.

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	52.	92.	4896.	0.	345.	5242.	4896.	5242.
11- 20	129.	197.	6099.	0.	190.	6289.	10995.	11531.
21- 30	111.	213.	6946.	0.	293.	7239.	17941.	18770.
31- 40	143.	103.	5176.	0.	365.	5541.	23117.	24311.
41- 50	42.	50.	5562.	0.	0.	5562.	28679.	29873.
51- 60	0.	60.	4583.	0.	271.	4854.	33262.	34727.
61- 70	0.	0.	4393.	0.	70.	4463.	37655.	39190.
71- 80	72.	0.	5207.	0.	0.	5207.	42862.	44397.
81- 90	176.	0.	2573.	0.	0.	2573.	45435.	46970.
91- 100	100.	200.	5373.	0.	200.	5573.	50808.	52543.
101- 200	120.	195.	15020.	0.	780.	15800.	65828.	68343.
201- 300	0.	0.	6697.	0.	0.	6697.	72525.	75040.
301- 400	0.	0.	4481.	0.	0.	4481.	77006.	79521.
401- 500	0.	0.	3872.	0.	928.	4800.	80878.	84321.
501- 600	0.	0.	3355.	0.	0.	3355.	84233.	87676.
601- 700	0.	0.	672.	0.	0.	672.	84905.	88348.
701- 800	0.	0.	0.	0.	735.	735.	84905.	89083.
801- 900	0.	0.	885.	0.	0.	885.	85790.	89968.
901- 1000	0.	0.	0.	0.	0.	0.	85790.	89968.
1001- 2000	0.	0.	3654.	0.	0.	3654.	89444.	93622.
2001- 3000	0.	0.	2626.	0.	0.	2626.	92070.	96248.
3001- 4000	0.	0.	0.	0.	0.	0.	92070.	96248.
4001- 5000	0.	0.	0.	0.	0.	0.	92070.	96248.
5001- 6000	0.	0.	0.	0.	0.	0.	92070.	96248.
6001- 7000	0.	0.	0.	0.	0.	0.	92070.	96248.
7001- 8000	0.	0.	0.	0.	0.	0.	92070.	96248.
8001- 9000	0.	0.	0.	0.	0.	0.	92070.	96248.
9001- 10000	0.	0.	0.	0.	0.	0.	92070.	96248.
10001-100000	0.	0.	0.	0.	0.	0.	92070.	96248.
COLUMN TOTALS	946.	1110.	92070.	0.	4178.	96248.		
CUMUL. TOTALS	87555.	88665.	88665.	88665.	92843.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	48.	1080.	553.	314.	155.	113.	100.	24.	31.
11-	20	13.	553.	553.	400.	355.	185.	84.	127.	51.
21-	30	21.	636.	1051.	400.	414.	142.	180.	108.	89.
31-	40	36.	482.	906.	385.	177.	187.	133.	70.	45.
41-	50	43.	600.	856.	978.	362.	276.	241.	95.	91.
51-	60	0.	503.	638.	907.	330.	102.	449.	117.	0.
61-	70	0.	394.	662.	529.	136.	128.	129.	0.	67.
71-	80	152.	225.	1129.	367.	75.	0.	76.	147.	80.
81-	90	0.	340.	582.	505.	90.	0.	90.	0.	90.
91-	100	0.	96.	574.	759.	677.	0.	100.	100.	0.
101-	200	1175.	1749.	4643.	3797.	2155.	1893.	794.	146.	155.
201-	300	530.	1182.	3353.	3430.	1735.	847.	0.	0.	0.
301-	400	0.	1315.	2525.	1396.	363.	698.	0.	0.	0.
401-	500	457.	1316.	1713.	1787.	1774.	495.	460.	0.	0.
501-	600	0.	1187.	0.	600.	576.	0.	0.	0.	0.
601-	700	0.	0.	611.	2017.	830.	700.	697.	0.	0.
701-	800	0.	0.	767.	0.	1459.	0.	735.	0.	0.
801-	900	0.	885.	831.	861.	0.	0.	0.	0.	0.
901-	1000	0.	0.	972.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	3544.	4538.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	2639.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		2475.	18735.	27257.	19432.	11463.	5786.	4268.	934.	654.
CUMUL. TOTALS		0.	18735.	45992.	65424.	76887.	82653.	86921.	87855.	88509.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL BOILERS AND ALL FUELS

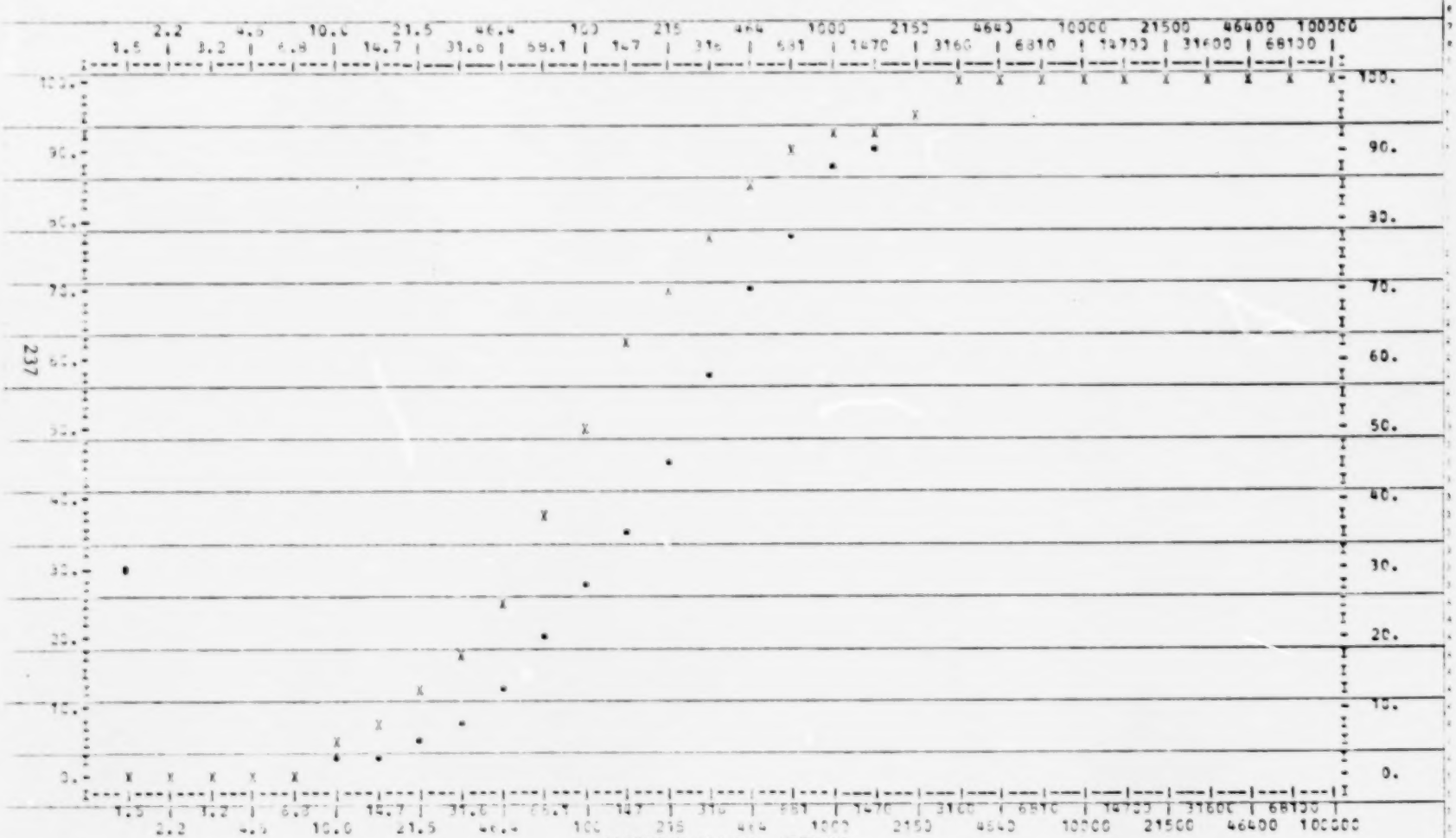
TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU*S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	17.	57.	2492.	0.	222.	2714.	2492.	2714.
11-	20	11.	51.	2383.	0.	97.	2480.	4875.	5194.
21-	30	51.	80.	3132.	0.	231.	3363.	8007.	8557.
31-	40	35.	66.	2517.	0.	200.	2717.	10524.	11274.
41-	50	84.	138.	3765.	0.	91.	3856.	14289.	15130.
51-	60	54.	51.	3151.	0.	160.	3311.	17440.	18441.
61-	70	138.	0.	2183.	0.	0.	2183.	19623.	20624.
71-	80	0.	0.	2251.	0.	0.	2251.	21874.	22875.
81-	90	176.	0.	1882.	0.	0.	1882.	23755.	24757.
91-	100	94.	100.	2500.	0.	91.	2591.	26256.	27348.
101-	200	120.	311.	16738.	0.	866.	17604.	42994.	44952.
201-	300	0.	0.	11077.	0.	0.	11077.	54071.	56029.
301-	400	0.	0.	6297.	0.	720.	7017.	60368.	63046.
401-	500	0.	0.	8002.	0.	0.	8002.	68370.	71048.
501-	600	0.	0.	2363.	0.	0.	2363.	70733.	73411.
601-	700	0.	0.	4655.	0.	0.	4655.	75388.	78066.
701-	800	0.	0.	2961.	0.	0.	2961.	78349.	81027.
801-	900	0.	0.	2577.	0.	0.	2577.	80926.	83604.
901-	1000	0.	0.	972.	0.	951.	1923.	81898.	85527.
1001-	2000	0.	0.	8082.	0.	0.	8082.	89980.	93609.
2001-	3000	0.	0.	2639.	0.	0.	2639.	92619.	96248.
3001-	4000	0.	0.	0.	0.	0.	0.	92619.	96248.
4001-	5000	0.	0.	0.	0.	0.	0.	92619.	96248.
5001-	6000	0.	0.	0.	0.	0.	0.	92619.	96248.
6001-	7000	0.	0.	0.	0.	0.	0.	92619.	96248.
7001-	8000	0.	0.	0.	0.	0.	0.	92619.	96248.
8001-	9000	0.	0.	0.	0.	0.	0.	92619.	96248.
9001-	10000	0.	0.	0.	0.	0.	0.	92619.	96248.
10001-	20000	0.	0.	0.	0.	0.	0.	92619.	96248.
20001-	30000	0.	0.	0.	0.	0.	0.	92619.	96248.
30001-	40000	0.	0.	0.	0.	0.	0.	92619.	96248.
40001-	50000	0.	0.	0.	0.	0.	0.	92619.	96248.
50001-	100000	0.	0.	0.	0.	0.	0.	92619.	96248.
COLUMN TOTALS		780.	853.	92619.	0.	3629.	96248.		
CUMUL. TOTALS		89289.	90144.	90144.	90144.	93773.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS

A---INDIVIDUAL BOILERS
•---PLANTS

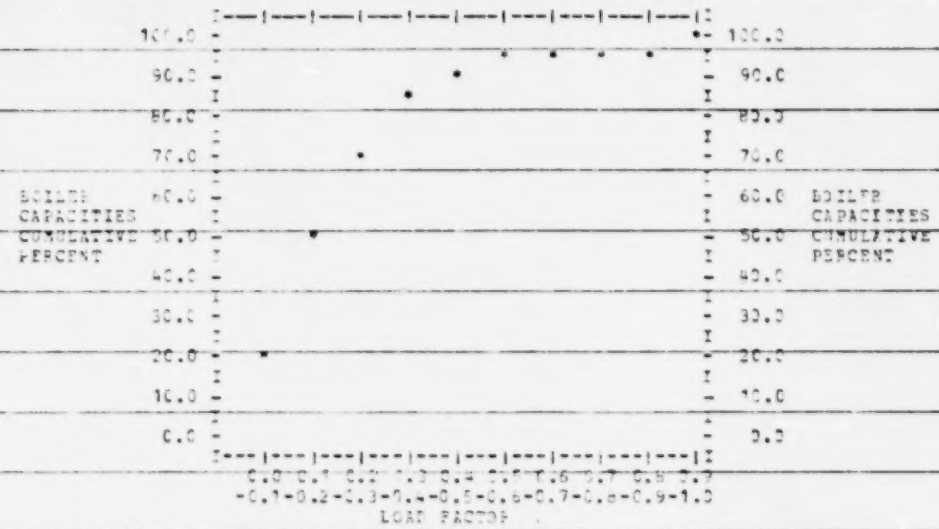
CAPACITY RANGES, MMBTU/HR

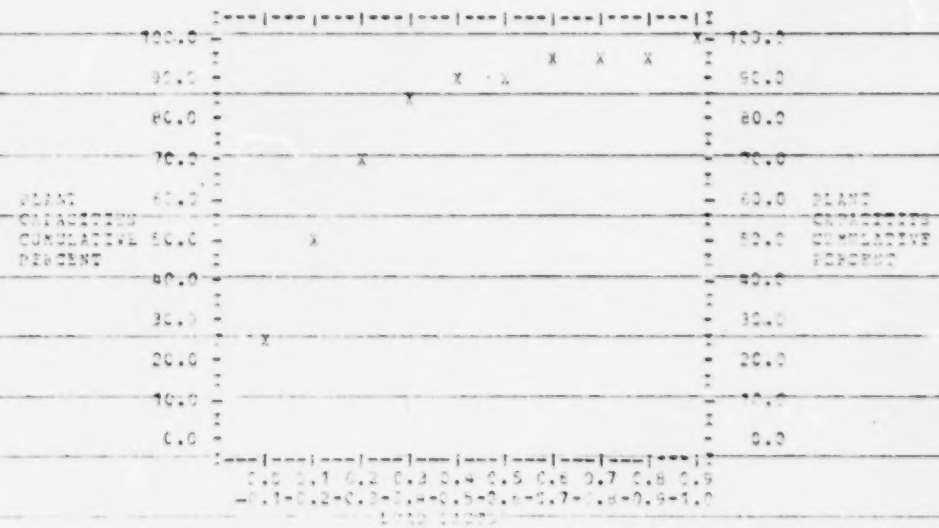


CAPACITY RANGES, MMBTU/HR

BOILER CAPACITIES (ALL DATA) = 96240. BOILER CAPACITIES (RELIABLE DATA) = 86605.
PLANT CAPACITIES (ALL DATA) = 96240. PLANT CAPACITIES (RELIABLE DATA) = 92194.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTORS

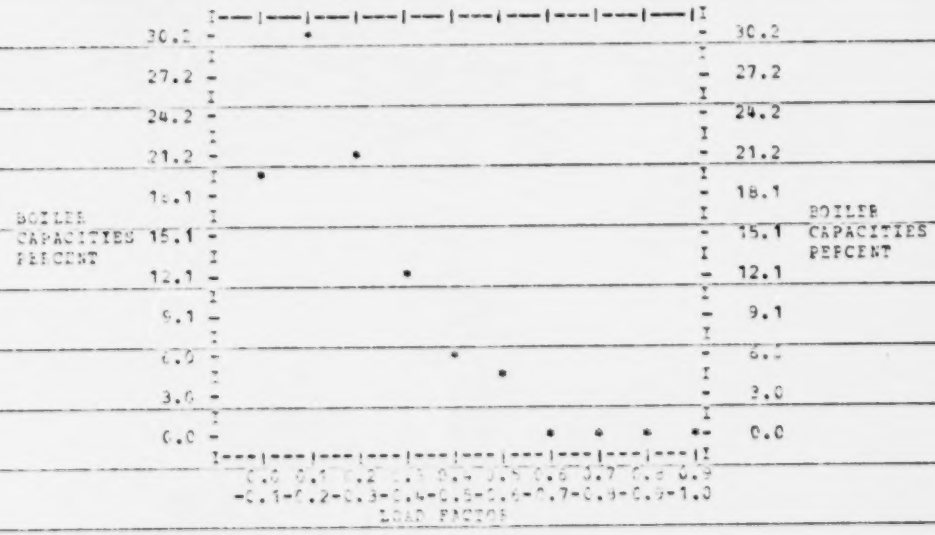


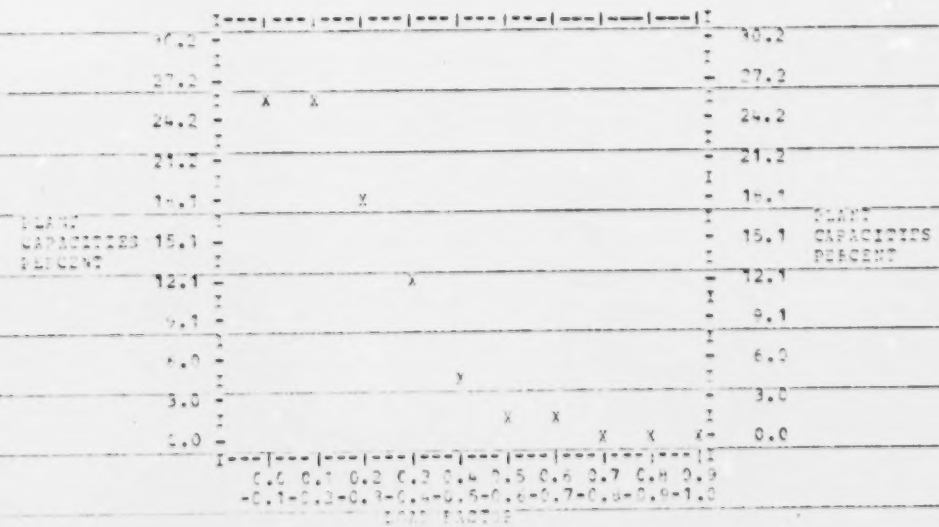


BOILER CAPACITIES (ALL DATA) = 96248. BOILER CAPACITIES (RELIABLE DATA) = 88665.
PLANT CAPACITIES (ALL DATA) = 96248. PLANT CAPACITIES (RELIABLE DATA) = 93144.

CA2-6

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
LOAD FACTOR DENSITIES





BOILER CAPACITIES (ALL DATA) = 96248. BOILER CAPACITIES (RELIABLE DATA) = 88655.
PLANT CAPACITIES (ALL DATA) = 96248. PLANT CAPACITIES (RELIABLE DATA) = 90144.

CA2-7

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MILLION BTU/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
[illegible]	184	21	25	14	20	16	13	5	1
1- 10	370	56	101	72	59	145	197	26	55
11- 20	68	19	11	3	15	41	77	24	22
21- 30	41	17	8	1	12	39	45	4	23
31- 40	30	9	4	1	6	14	31	2	7
41- 50	15	1	2	1	7	6	21	1	7
51- 60	14	4	0	0	7	6	6	3	8
61- 70	11	3	4	4	4	2	12	0	6
71- 80	10	7	0	0	2	14	11	2	7
81- 90	3	2	1	0	4	3	2	0	1
91- 100	9	5	2	5	2	2	7	2	3
101- 200	25	9	7	1	7	9	22	0	6
201- 300	6	2	5	0	0	2	2	1	0
301- 400	2	2	0	1	0	4	1	0	0
401- 500	2	2	1	0	1	2	2	0	1
501- 600	2	3	0	0	1	0	0	0	0
601- 700	0	0	0	0	0	0	1	0	0
701- 800	0	0	0	0	1	0	0	0	0
801- 900	0	0	0	0	0	0	1	0	0
901- 1000	0	0	0	0	0	0	0	0	0
1001- 2000	1	1	0	0	0	0	0	0	0
2001- 3000	1	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0
10001-100000	0	0	0	0	0	0	0	0	0
[illegible]	794	162	171	103	145	355	452	70	184
[illegible]	794	956	1127	1231	1376	1731	2183	2253	2437

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMULATIVE ALL
0	10	5	4	0	3	0	0	321	321
1- 10	89	60	21	9	4	0	0	1314	1635
11- 20	68	37	15	8	1	0	4	493	2048
21- 30	39	31	19	4	0	2	0	282	2330
31- 40	24	10	13	3	0	0	2	156	2486
41- 50	15	19	15	8	1	0	0	119	2605
51- 60	15	14	6	1	1	0	1	86	2691
61- 70	4	7	3	4	0	0	1	68	2759
71- 80	4	6	5	0	0	0	0	69	2828
81- 90	5	7	1	0	0	0	0	30	2858
91- 100	11	6	3	0	0	0	0	57	2915
101- 200	4	12	9	3	1	0	0	115	3030
201- 300	3	5	0	0	0	0	0	26	3056
301- 400	0	1	0	2	0	0	0	13	3069
401- 500	0	0	0	0	0	0	0	11	3080
501- 600	0	0	0	0	0	0	0	6	3086
601- 700	0	0	0	0	0	0	0	1	3087
701- 800	0	0	0	0	0	0	0	1	3088
801- 900	0	0	0	0	0	0	0	1	3089
901- 1000	0	0	0	0	0	0	0	0	3089
1001- 2000	0	0	0	0	0	0	0	2	3091
2001- 3000	0	0	0	0	0	0	0	1	3092
3001- 4000	0	0	0	0	0	0	0	0	3092
4001- 5000	0	0	0	0	0	0	0	0	3092
5001- 6000	0	0	0	0	0	0	0	0	3092
6001- 7000	0	0	0	0	0	0	0	0	3092
7001- 8000	0	0	0	0	0	0	0	0	3092
8001- 9000	0	0	0	0	0	0	0	0	3092
9001- 10000	0	0	0	0	0	0	0	0	3092
10001-100000	0	0	0	0	0	0	0	0	3092
COLUMN TOTALS	291	220	121	42	11	2	8	3092	
CUMUL. TOTALS	2688	2908	3029	3071	3082	3084	3092		

242

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

[illegible]

[illegible]

[illegible]

WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY [illegible]	[illegible]	>[illegible] -.[illegible]	>.2 -.3	>.3 -.4	>.[illegible] -.[illegible]	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
[illegible]	[illegible]	[illegible]	4	[illegible]	17	6	7	2	1
[illegible] 1	[illegible]	22	53	48	42	154	79	4	11
11- [illegible]	30	9	4	2	4	22	32	6	9
21- [illegible]	21	8	2	0	7	31	21	0	4
31- 40	11	4	2	0	5	8	13	1	5
[illegible]	7	6	4	0	3	9	12	2	6
[illegible]	4	2	2	0	3	4	13	2	3
[illegible] 70	2	1	1	0	2	2	2	[illegible]	2
[illegible]	4	3	0	0	4	[illegible]	1	2	1
[illegible]	2	1	2	0	4	1	2	0	1
91- 100	2	5	0	1	1	1	2	1	2
101- 200	13	7	5	3	11	5	21	3	7
201- 300	6	3	1	1	3	6	7	1	3
301- 400	1	1	2	1	1	2	3	1	0
401- 500	2	3	1	1	2	3	2	0	2
501- 600	0	1	0	0	1	0	0	0	1
601- 700	0	1	1	0	0	0	2	1	0
701- 800	0	1	1	0	1	1	0	2	0
801- 900	0	0	0	0	0	0	2	1	0
901- 1000	1	0	1	0	0	0	0	0	0
1001- 2000	1	2	0	0	0	1	1	0	0
2001- 3000	1	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	401	91	96	65	109	255	221	27	53
CUMUL. TOTALS	401	492	588	652	761	1017	1238	1265	1323

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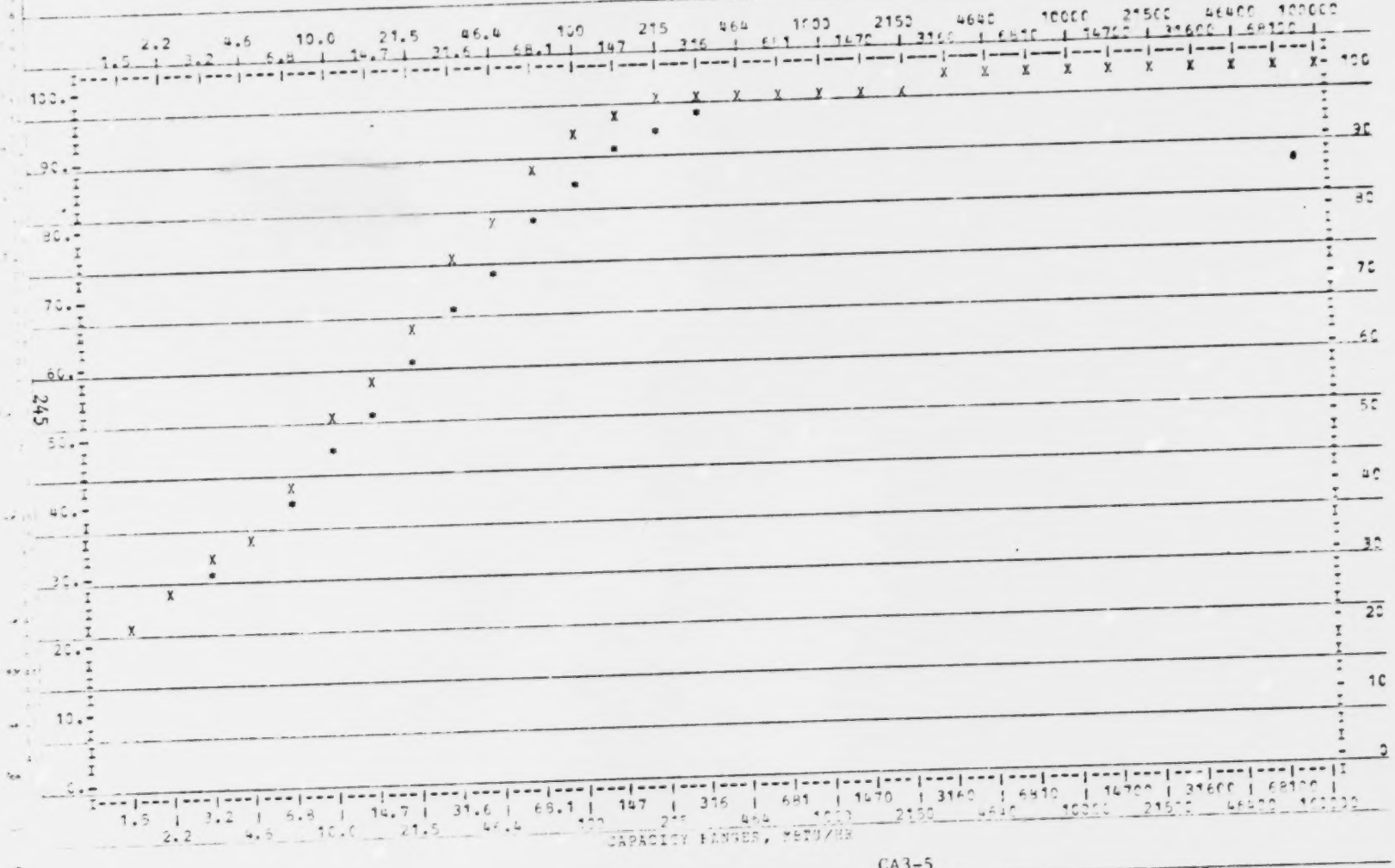
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0-AL 0	5	1	4	0	1	0	0	170	170
1- 10	26	31	10	5	2	0	0	682	852
11- 20	23	23	4	0	1	0	0	165	1017
21- 30	13	19	5	1	0	0	0	132	1149
31- 40	16	7	4	2	0	0	0	78	1227
41- 50	15	13	5	1	1	0	1	84	1311
51- 60	12	9	2	1	1	1	0	59	1370
61- 70	6	6	7	2	0	0	0	33	1403
71- 80	6	7	2	0	0	0	0	30	1433
81- 90	2	5	2	0	0	0	0	22	1455
91- 100	4	5	2	1	0	0	0	27	1482
101- 200	9	15	10	4	1	0	1	121	1603
201- 300	6	2	4	1	0	0	0	44	1647
301- 400	3	2	1	2	0	0	0	20	1667
401- 500	1	0	1	0	0	0	0	18	1685
501- 600	0	1	0	0	0	0	0	4	1689
601- 700	1	1	0	0	0	0	0	7	1696
701- 800	0	0	0	0	0	0	0	4	1700
801- 900	0	0	0	0	0	0	0	3	1703
901- 1000	0	0	0	0	0	0	0	2	1705
1001- 2000	0	0	0	0	0	0	0	5	1710
2001- 3000	0	0	0	0	0	0	0	1	1711
3001- 4000	0	0	0	0	0	0	0	0	1711
4001- 5000	0	0	0	0	0	0	0	0	1711
5001- 6000	0	0	0	0	0	0	0	0	1711
6001- 7000	0	0	0	0	0	0	0	0	1711
7001- 8000	0	0	0	0	0	0	0	0	1711
8001- 9000	0	0	0	0	0	0	0	0	1711
9001- 10000	0	0	0	0	0	0	0	0	1711
10001- 20000	0	0	0	0	0	0	0	0	1711
20001- 30000	0	0	0	0	0	0	0	0	1711
30001- 40000	0	0	0	0	0	0	0	0	1711
40001- 50000	0	0	0	0	0	0	0	0	1711
50001-100000	0	0	0	0	0	0	0	0	1711
COLUMN TOTALS	148	147	63	29	7	1	2	1711	
CUMUL. TOTALS	1471	1618	1681	1701	1708	1709	1711		

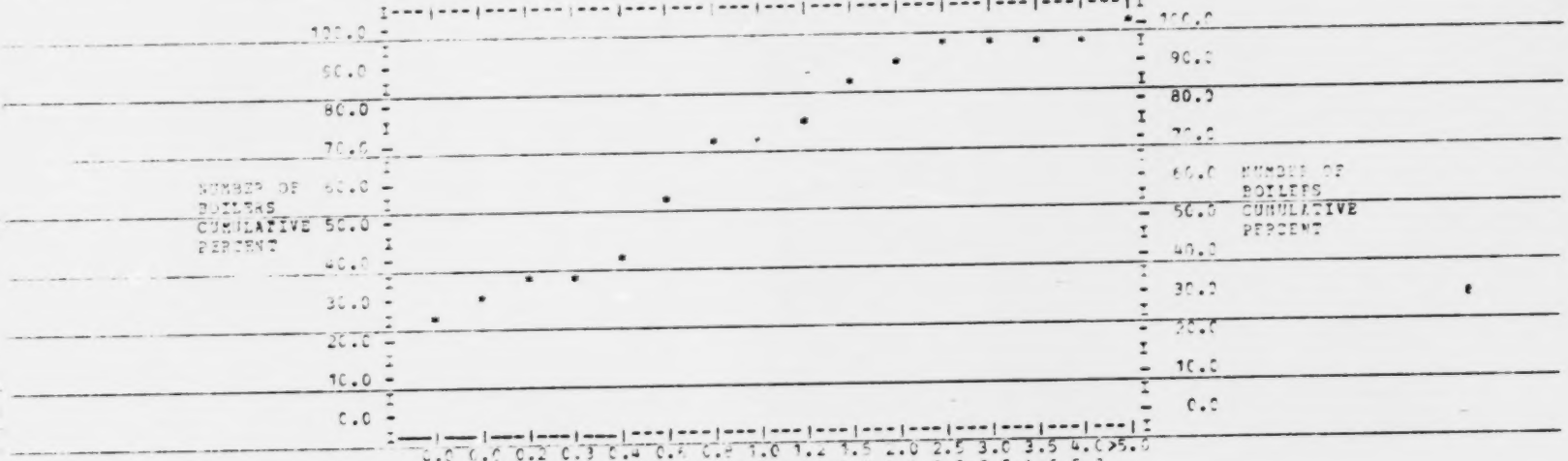
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

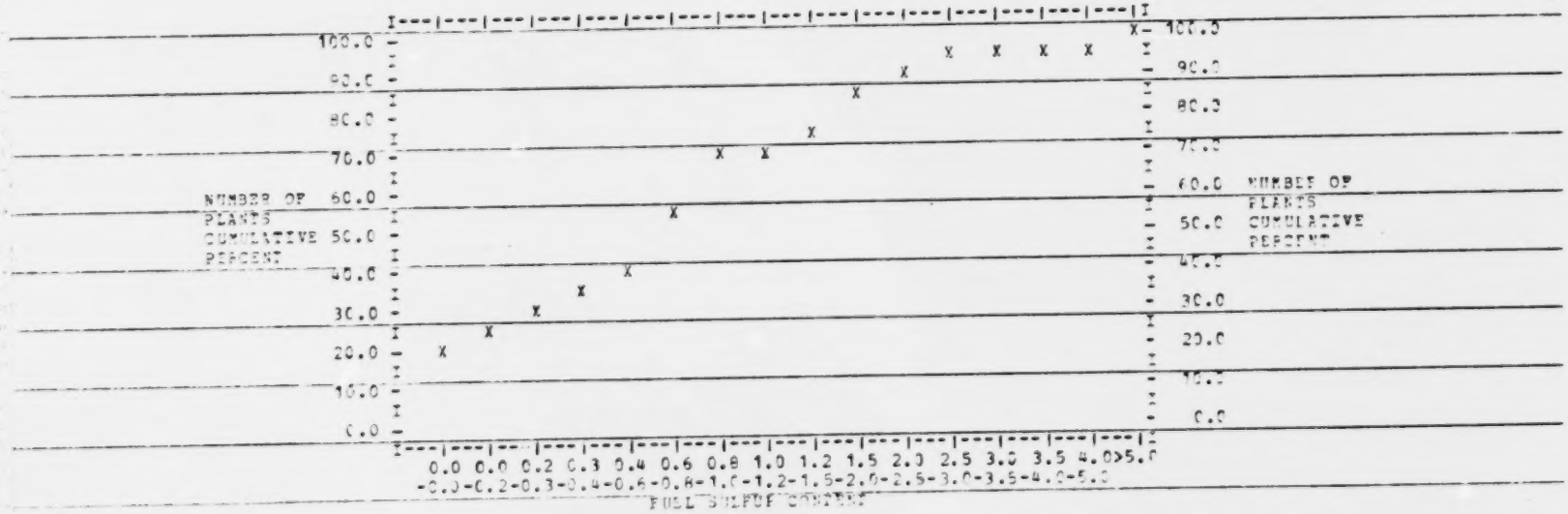
X---INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 3042

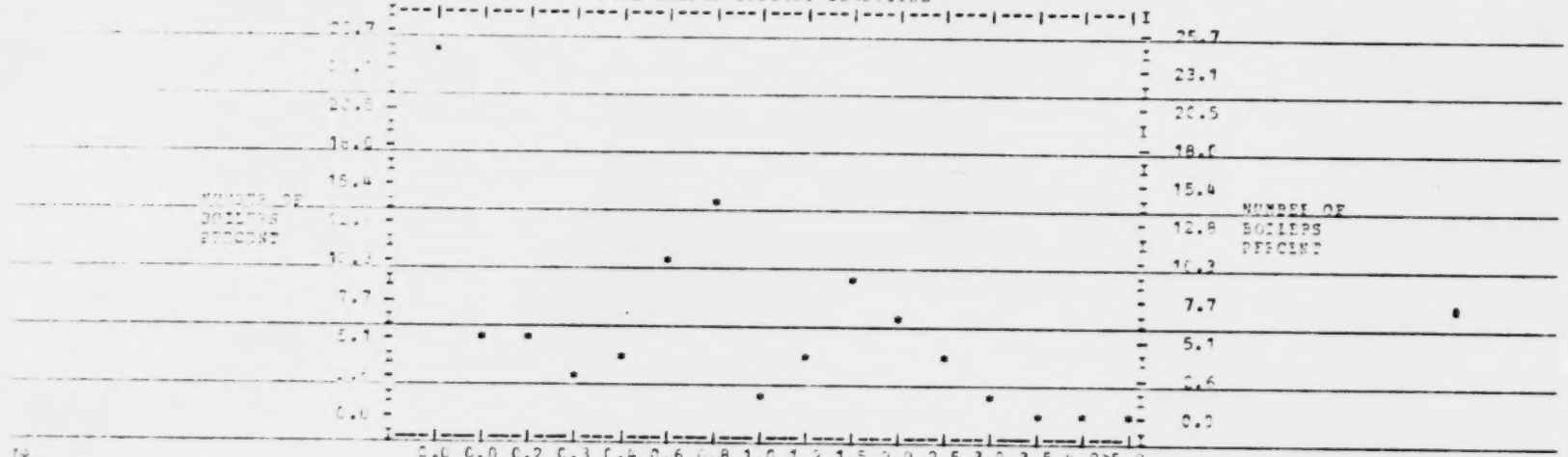
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS

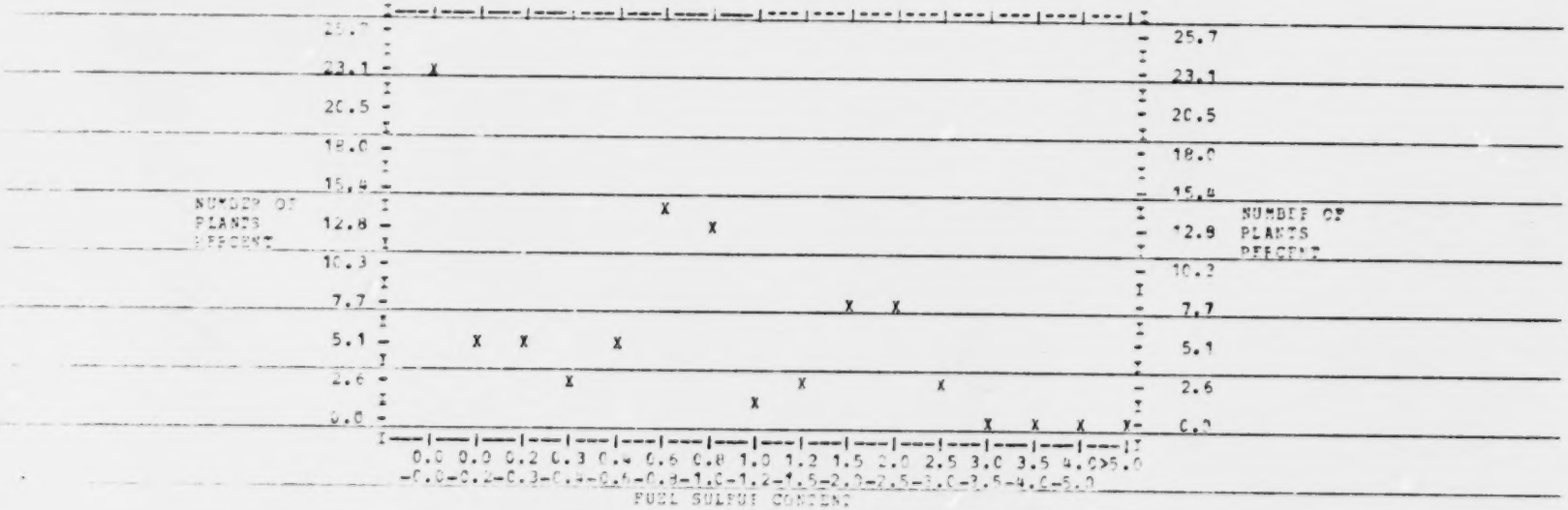




NUMBER OF BOILERS (ALL DATA) = 3092

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 3092
NUMBER OF BOILERS WITH DATA = 1711

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY KBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	1256.	267.	295.	166.	186.	1038.	832.	120.	243.
11-	20	1072.	287.	152.	49.	226.	604.	1198.	350.	321.
21-	30	1043.	448.	214.	30.	319.	1066.	1113.	96.	532.
31-	40	1080.	339.	146.	35.	219.	514.	1068.	69.	244.
41-	50	595.	46.	98.	45.	339.	284.	967.	42.	311.
51-	60	822.	222.	0.	0.	412.	336.	344.	167.	427.
61-	70	722.	200.	271.	256.	62.	126.	805.	0.	379.
71-	80	757.	528.	0.	0.	145.	1059.	525.	151.	545.
81-	90	257.	180.	90.	0.	344.	255.	264.	0.	93.
91-	100	879.	497.	200.	484.	199.	187.	693.	200.	290.
101-	200	3560.	1110.	976.	120.	907.	1248.	3034.	0.	833.
201-	300	1762.	512.	1186.	0.	0.	498.	520.	295.	0.
301-	400	663.	630.	0.	380.	0.	1426.	360.	0.	0.
401-	500	926.	893.	425.	0.	450.	816.	876.	0.	412.
501-	600	1115.	1640.	0.	0.	600.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	672.	0.	0.
701-	800	0.	0.	0.	0.	735.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	885.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	1750.	1904.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	2626.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		20997.	9703.	4053.	1565.	5143.	9397.	14456.	1489.	4620.
CUMUL. TOTALS		20997.	30700.	34753.	36318.	41461.	50858.	65314.	66803.	71423.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MILLION BTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	386.	308.	80.	61.	4.	0.	0.	5242.	5242.
11-	20	1031.	572.	228.	129.	13.	0.	57.	6289.	11531.
21-	30	992.	622.	459.	109.	0.	56.	0.	7239.	18770.
31-	40	846.	339.	467.	102.	0.	0.	64.	5541.	24311.
41-	50	689.	901.	733.	367.	45.	0.	0.	5562.	29873.
51-	60	852.	761.	338.	60.	60.	0.	53.	4854.	34727.
61-	70	268.	466.	582.	262.	0.	0.	64.	4463.	39190.
71-	80	296.	448.	453.	0.	0.	0.	0.	5207.	44397.
81-	90	421.	592.	87.	0.	0.	0.	0.	2573.	46970.
91-	100	1071.	584.	289.	0.	0.	0.	0.	5573.	52543.
101-	200	528.	1831.	1179.	366.	108.	0.	0.	15800.	68343.
201-	300	684.	1240.	0.	0.	0.	0.	0.	6697.	75040.
301-	400	0.	362.	0.	660.	0.	0.	0.	4481.	79521.
401-	500	0.	0.	0.	0.	0.	0.	0.	4800.	84321.
501-	600	0.	0.	0.	0.	0.	0.	0.	3355.	87676.
601-	700	0.	0.	0.	0.	0.	0.	0.	672.	88348.
701-	800	0.	0.	0.	0.	0.	0.	0.	735.	89083.
801-	900	0.	0.	0.	0.	0.	0.	0.	885.	89968.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	89968.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	3654.	93622.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	2626.	96248.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
COLUMN TOTALS		8064.	9226.	4895.	2116.	230.	56.	238.	96248.	
CUMUL. TOTALS		79487.	88713.	93608.	95724.	95954.	96010.	96248.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY	EQUAL	>0.	>.2	>.3	>.4	>.6	>.8	>1.0	>1.2
MBTU'S/HR	0.	-.2	-.3	-.4	-.6	-.8	-1.0	-1.2	-1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	592.	101.	145.	110.	123.	858.	375.	20.	64.
11- 20	458.	132.	50.	30.	68.	264.	441.	100.	128.
21- 30	522.	211.	49.	0.	172.	796.	507.	0.	123.
31- 40	385.	136.	66.	0.	133.	271.	452.	35.	175.
41- 50	337.	217.	193.	0.	139.	416.	552.	83.	256.
51- 60	229.	117.	114.	0.	174.	225.	735.	109.	161.
61- 70	128.	69.	70.	0.	0.	188.	195.	0.	131.
71- 80	306.	254.	0.	0.	289.	0.	78.	151.	73.
81- 90	164.	82.	180.	0.	346.	88.	174.	0.	63.
91- 100	190.	463.	0.	91.	99.	100.	193.	100.	190.
101- 200	2827.	1183.	720.	496.	1516.	814.	2976.	450.	953.
201- 300	1699.	730.	208.	280.	761.	1402.	1810.	295.	749.
301- 400	303.	360.	720.	364.	378.	719.	1031.	359.	0.
401- 500	917.	1324.	425.	440.	913.	1234.	923.	0.	910.
501- 600	0.	600.	0.	0.	600.	0.	0.	0.	587.
601- 700	0.	630.	611.	0.	0.	0.	1369.	662.	0.
701- 800	0.	734.	725.	0.	735.	767.	0.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	1716.	861.	0.
901- 1000	951.	0.	972.	0.	0.	0.	0.	0.	0.
1001- 2000	1750.	3345.	0.	0.	0.	1794.	1193.	0.	0.
2001- 3000	2639.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	14396.	10688.	5248.	1811.	6496.	9936.	14720.	3225.	4565.
CUMUL. TOTALS	14396.	25084.	30332.	32143	38639.	48575.	63295.	66520.	71085.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

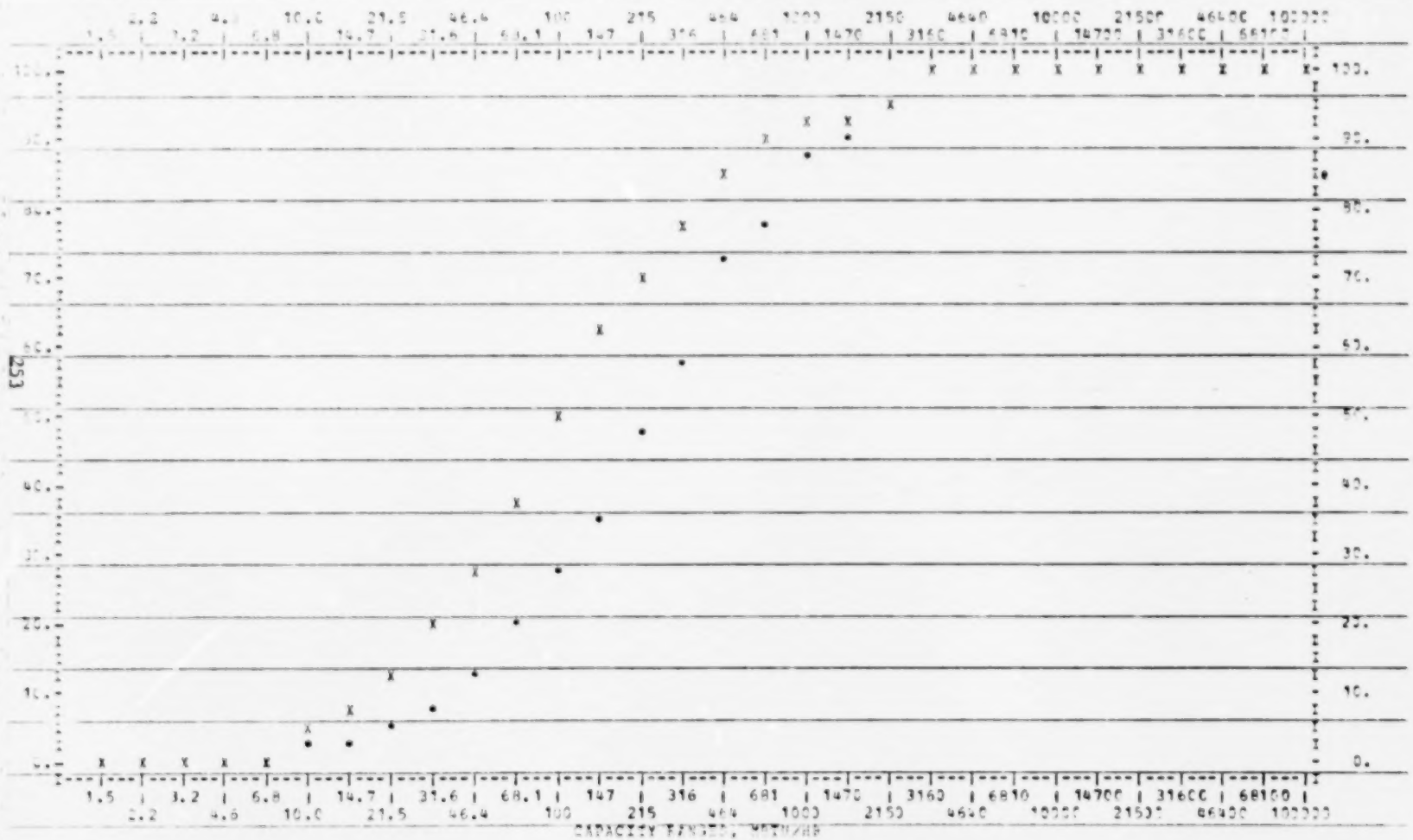
TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	103.	145.	42.	31.	4.	0.	0.	2714.	2714.
11- 20	353.	372.	67.	0.	33.	0.	0.	2480.	5194.
21- 30	325.	532.	137.	30.	0.	0.	0.	3363.	8557.
31- 40	565.	493.	140.	65.	0.	0.	0.	2717.	11274.
41- 50	688.	601.	235.	50.	45.	0.	42.	3856.	15130.
51- 60	677.	694.	106.	54.	60.	56.	0.	3311.	18441.
61- 70	406.	468.	858.	136.	0.	0.	0.	2183.	20624.
71- 80	449.	523.	149.	0.	0.	0.	0.	2251.	22875.
81- 90	166.	420.	172.	0.	0.	0.	0.	1882.	24757.
91- 100	379.	478.	195.	94.	0.	0.	0.	2591.	27348.
101- 200	1211.	2280.	1378.	511.	108.	0.	181.	17604.	44952.
201- 300	1555.	478.	830.	220.	0.	0.	0.	11077.	56029.
301- 400	1084.	676.	363.	660.	0.	0.	0.	7017.	63046.
401- 500	420.	0.	496.	0.	0.	0.	0.	8002.	71048.
501- 600	0.	576.	0.	0.	0.	0.	0.	2363.	73411.
601- 700	683.	709.	0.	0.	0.	0.	0.	4655.	78066.
701- 800	0.	0.	0.	0.	0.	0.	0.	2981.	81047.
801- 900	0.	0.	0.	0.	0.	0.	0.	2577.	83604.
901- 1000	0.	0.	0.	0.	0.	0.	0.	1923.	85527.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	8082.	93609.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	2639.	96248.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	96248.
COLUMN TOTALS	9063.	8913.	4827.	1851.	230.	56.	223.	96248.	
CUMTOT. TOTALS	89061.	89061.	93888.	95739.	95969.	96025.	96248.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS

X---INDIVIDUAL BOILERS
•---PLANTS

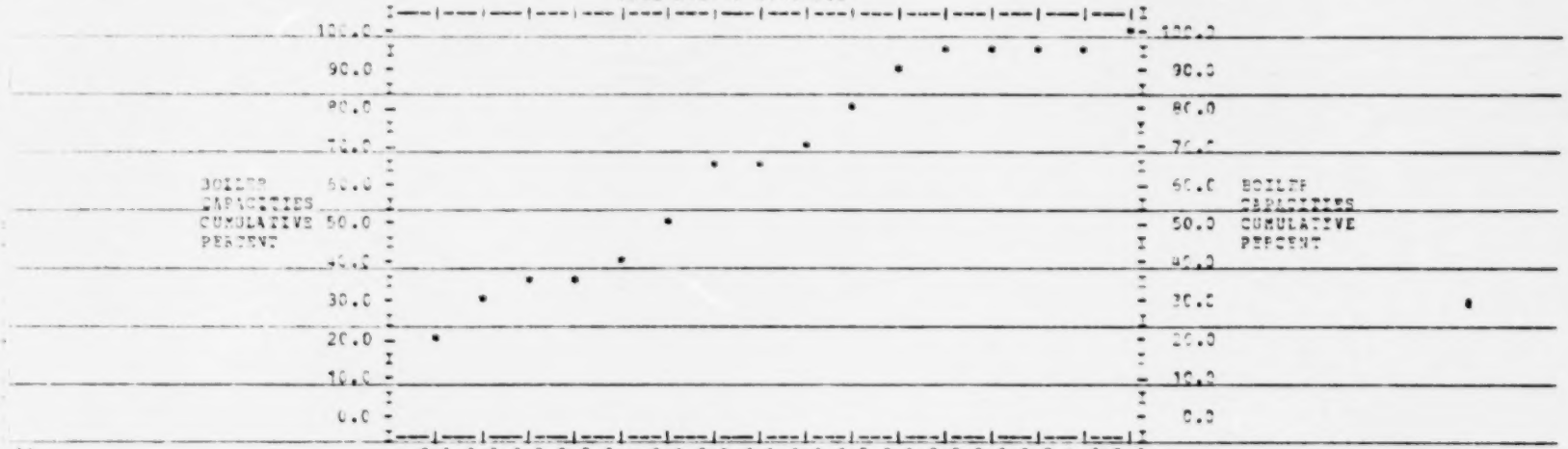
CAPACITY RANGES, MBTU/HR

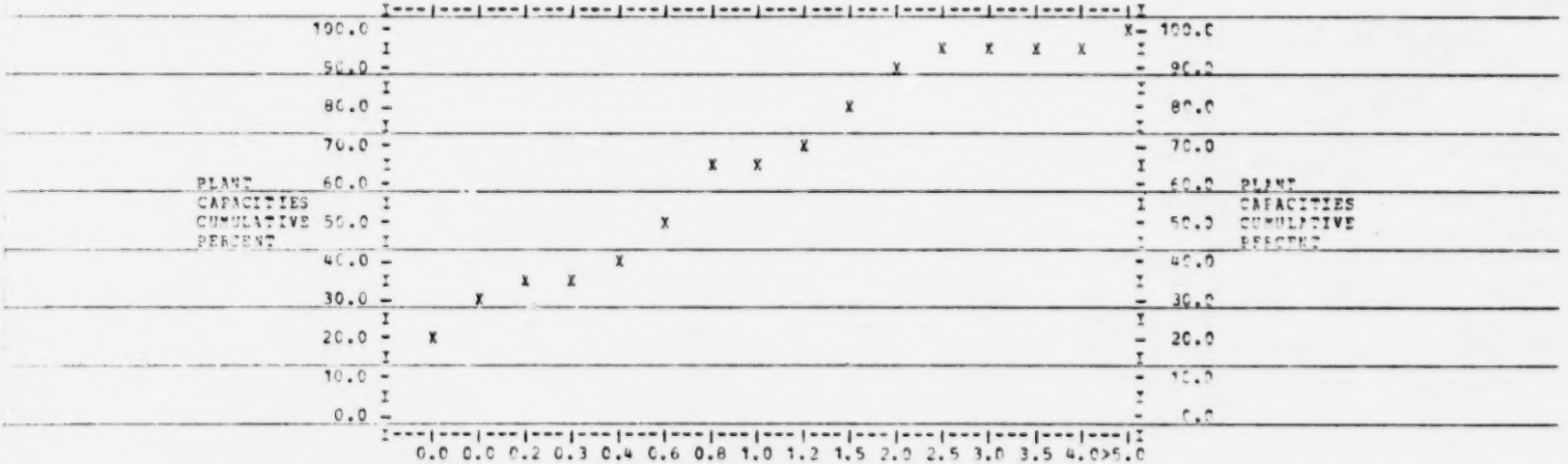


253

BOILER CHARACTERISTICS (ALL DATA) = 90248.
PLANT CHARACTERISTICS (ALL DATA) = 9248.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS





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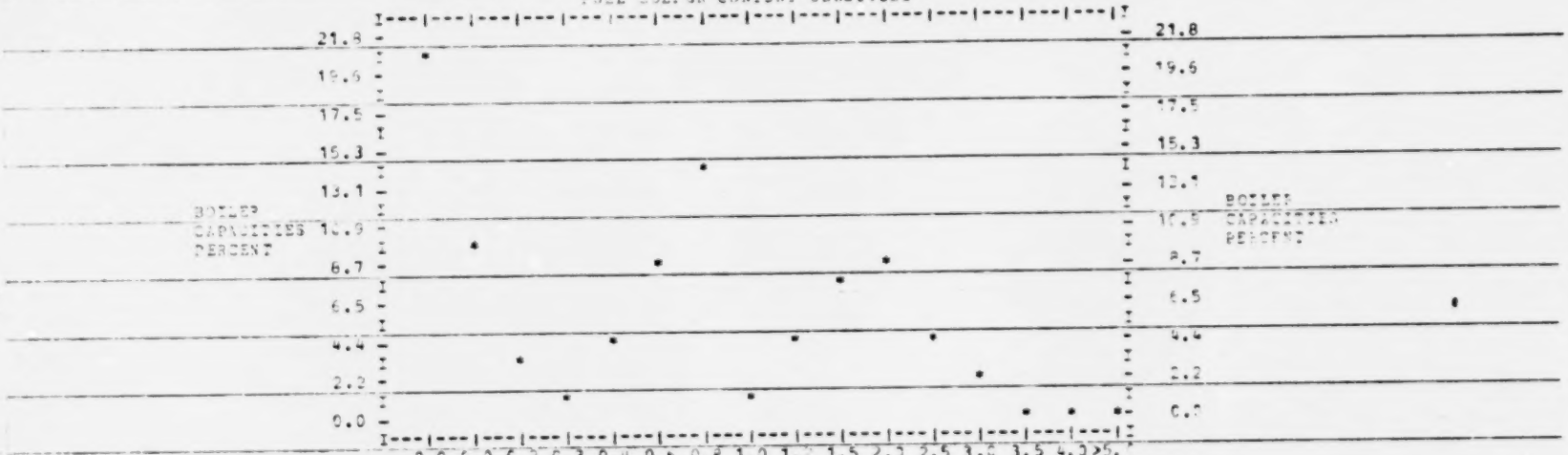
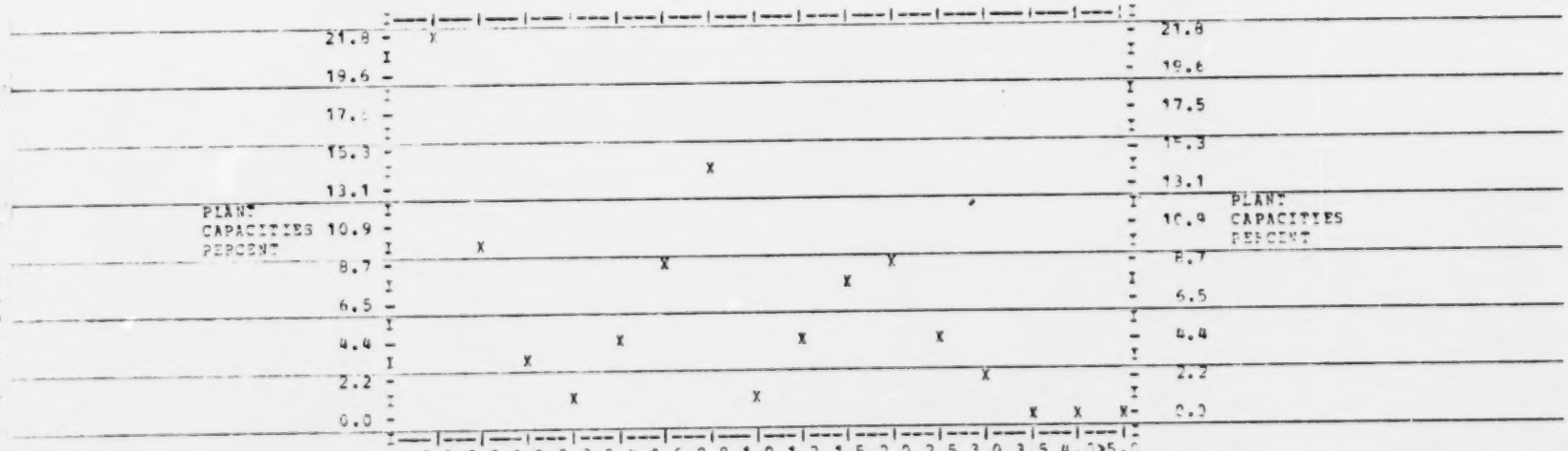
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	85.	60.	59.	486.	898.	600.	180.	514.
11-	20	0.	22.	17.	15.	183.	294.	956.	458.	238.
21-	30	0.	46.	15.	45.	133.	575.	708.	59.	631.
31-	40	0.	23.	15.	16.	122.	230.	950.	90.	126.
41-	50	0.	2.	23.	2.	251.	64.	507.	16.	142.
51-	60	0.	12.	0.	0.	210.	192.	319.	67.	452.
61-	70	0.	6.	43.	86.	3.	26.	418.	0.	403.
71-	80	0.	14.	0.	0.	19.	535.	500.	86.	690.
81-	90	0.	8.	0.	0.	120.	292.	261.	0.	36.
91-	100	0.	94.	11.	60.	67.	105.	788.	607.	206.
101-	200	0.	40.	157.	94.	298.	614.	1747.	0.	1396.
201-	300	0.	27.	113.	0.	0.	377.	302.	156.	0.
301-	400	0.	142.	0.	77.	0.	581.	142.	0.	0.
401-	500	0.	15.	32.	0.	13.	514.	232.	0.	381.
501-	600	0.	72.	0.	0.	158.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	278.	0.	0.
701-	800	0.	1026.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	96.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	39.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	1675.	487.	453.	2062.	5297.	8804.	1719.	5213.
CUMUL. TOTALS		0.	1675.	2162.	2615.	4677.	9974.	18778.	20497.	25710.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	4568.	882.	930.	1170.	1229.	0.	0.	11660.	11660.
11-	20	1337.	1166.	877.	711.	74.	0.	291.	6639.	18299.
21-	30	1138.	1741.	1307.	532.	0.	70.	0.	6999.	25298.
31-	40	1456.	383.	1537.	684.	0.	0.	247.	6079.	31377.
41-	50	714.	1365.	2718.	1377.	440.	0.	0.	7620.	38998.
51-	60	1077.	1717.	895.	320.	133.	0.	200.	5592.	44590.
61-	70	162.	1068.	1384.	818.	0.	0.	241.	4657.	49247.
71-	80	164.	977.	701.	0.	0.	0.	0.	3688.	52935.
81-	90	240.	1233.	17.	0.	0.	0.	0.	2209.	55144.
91-	100	1524.	980.	477.	0.	0.	0.	0.	4920.	60063.
101-	200	197.	2725.	2895.	1750.	615.	0.	0.	12530.	72594.
201-	300	193.	2920.	0.	0.	0.	0.	0.	4088.	76681.
301-	400	0.	320.	0.	713.	0.	0.	0.	1974.	78655.
401-	500	0.	0.	0.	0.	0.	0.	0.	1185.	79840.
501-	600	0.	0.	0.	0.	0.	0.	0.	230.	80070.
601-	700	0.	0.	0.	0.	0.	0.	0.	278.	80348.
701-	800	0.	0.	0.	0.	0.	0.	0.	1026.	81374.
801-	900	0.	0.	0.	0.	0.	0.	0.	96.	81470.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	81470.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	39.	81509.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
COLUMN TOTALS		12769.	17477.	13738.	8274.	2492.	70.	979.	81509.	
CUMUL. TOTALS		38482.	55957.	69695.	77969.	80460.	80531.	81509.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	22.	2.	1.	377.	87.	2.	49.	353.
1- 10	0.	60.	35.	13.	98.	453.	396.	39.	61.
11- 20	0.	12.	6.	11.	53.	67.	245.	179.	62.
21- 30	0.	31.	7.	0.	95.	402.	429.	0.	159.
31- 40	0.	12.	9.	0.	75.	374.	301.	10.	93.
41- 50	0.	6.	42.	0.	170.	158.	322.	247.	191.
51- 60	0.	6.	7.	0.	98.	235.	581.	53.	169.
61- 70	0.	2.	12.	0.	0.	44.	157.	0.	258.
71- 80	0.	12.	0.	0.	62.	0.	25.	86.	57.
81- 90	0.	1.	3.	0.	137.	114.	222.	0.	36.
91- 100	0.	100.	0.	17.	59.	52.	95.	231.	180.
101- 200	0.	67.	186.	156.	585.	331.	1758.	690.	702.
201- 300	0.	29.	25.	53.	221.	536.	1119.	156.	889.
301- 400	0.	12.	78.	50.	258.	511.	624.	115.	0.
401- 500	0.	39.	32.	108.	151.	805.	727.	0.	1462.
501- 600	0.	0.	0.	0.	158.	0.	0.	0.	42.
601- 700	0.	142.	58.	0.	0.	0.	1357.	502.	0.
701- 800	0.	1133.	176.	0.	0.	295.	0.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	348.	454.	0.
901- 1000	0.	0.	71.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	46.	0.	0.	0.	156.	275.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	1719.	746.	408.	2630.	4592.	9012.	2811.	4734.
CUMUL. TOTALS	0.	1719.	2466.	2874.	5504.	10096.	19107.	21919.	26652.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL BOILERS AND ALL FUELS

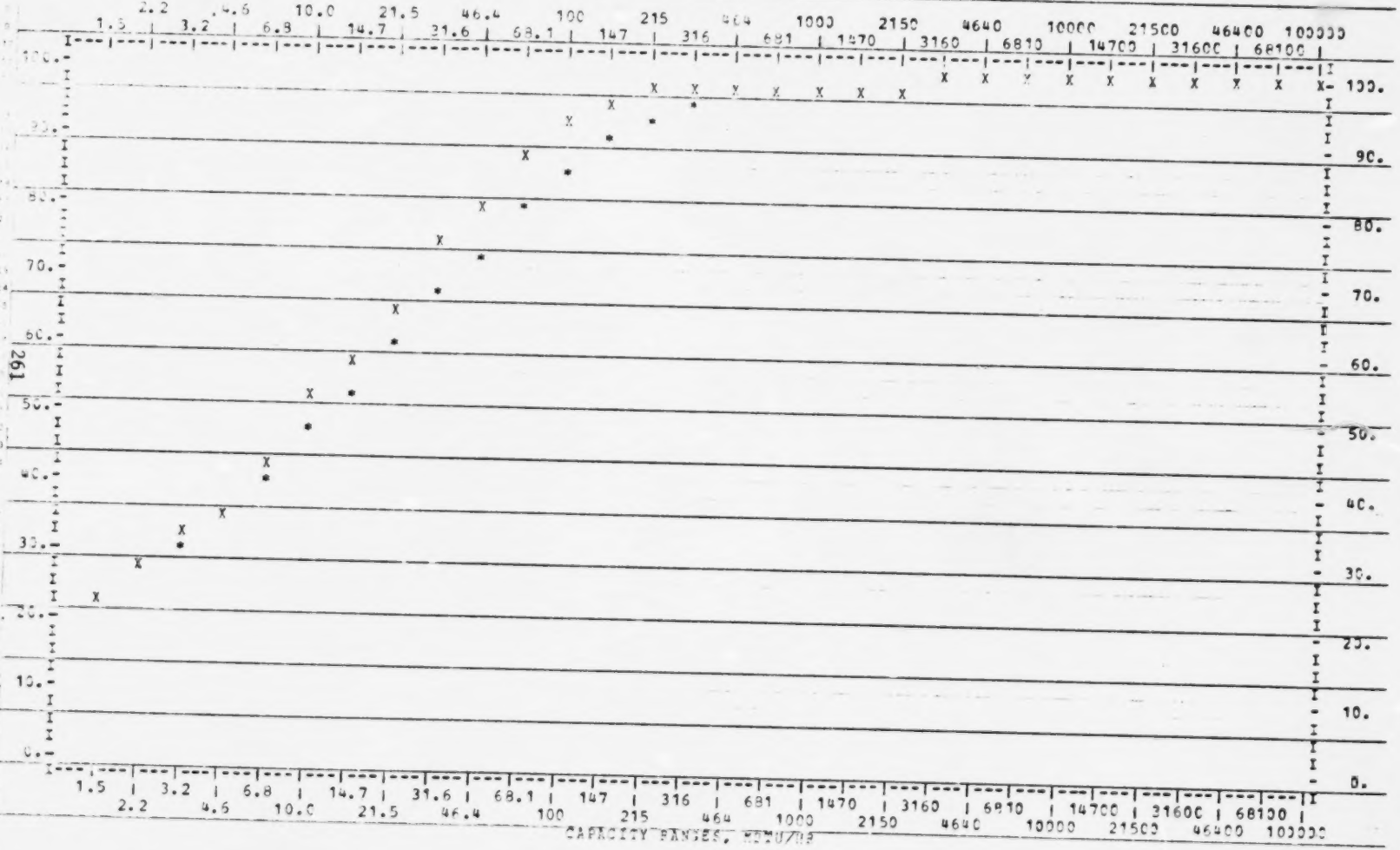
TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
ZERO 0	241.	15.	567.	0.	714.	0.	0.	2393.	2393.
1- 10	571.	443.	578.	435.	363.	0.	0.	3517.	5910.
11- 20	587.	801.	151.	0.	79.	0.	0.	2268.	8178.
21- 30	557.	1046.	363.	735.	0.	0.	0.	3827.	12005.
31- 40	848.	230.	951.	415.	0.	0.	0.	3322.	15327.
41- 50	919.	842.	591.	44.	440.	0.	281.	4252.	19580.
51- 60	950.	877.	584.	184.	133.	70.	0.	3946.	23526.
61- 70	515.	557.	1046.	267.	0.	0.	0.	2862.	26387.
71- 80	351.	1027.	202.	0.	0.	0.	0.	1820.	28208.
81- 90	155.	904.	196.	0.	0.	0.	0.	1782.	29989.
91- 100	261.	853.	449.	310.	0.	0.	0.	2618.	32607.
101- 200	881.	3711.	4272.	3650.	615.	0.	718.	18324.	50931.
201- 300	1922.	344.	1831.	420.	0.	0.	0.	7555.	58486.
301- 400	3926.	941.	470.	713.	0.	0.	0.	7728.	66213.
401- 500	246.	0.	1596.	0.	0.	0.	0.	5167.	71380.
501- 600	0.	1016.	0.	0.	0.	0.	0.	1221.	72601.
601- 700	905.	2974.	0.	0.	0.	0.	0.	5937.	78538.
701- 800	0.	0.	0.	0.	0.	0.	0.	1604.	80142.
801- 900	0.	0.	0.	0.	0.	0.	0.	822.	80964.
901- 1000	0.	0.	0.	0.	0.	0.	0.	71.	81035.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	474.	81509.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	81509.
COLUMN TOTALS	13844.	16580.	13848.	7176.	2340.	70.	999.	81509.	
CUMUL. TOTALS	40496.	57076.	70924.	78100.	80440.	80510.	81509.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT NUMBER DISTRIBUTIONS

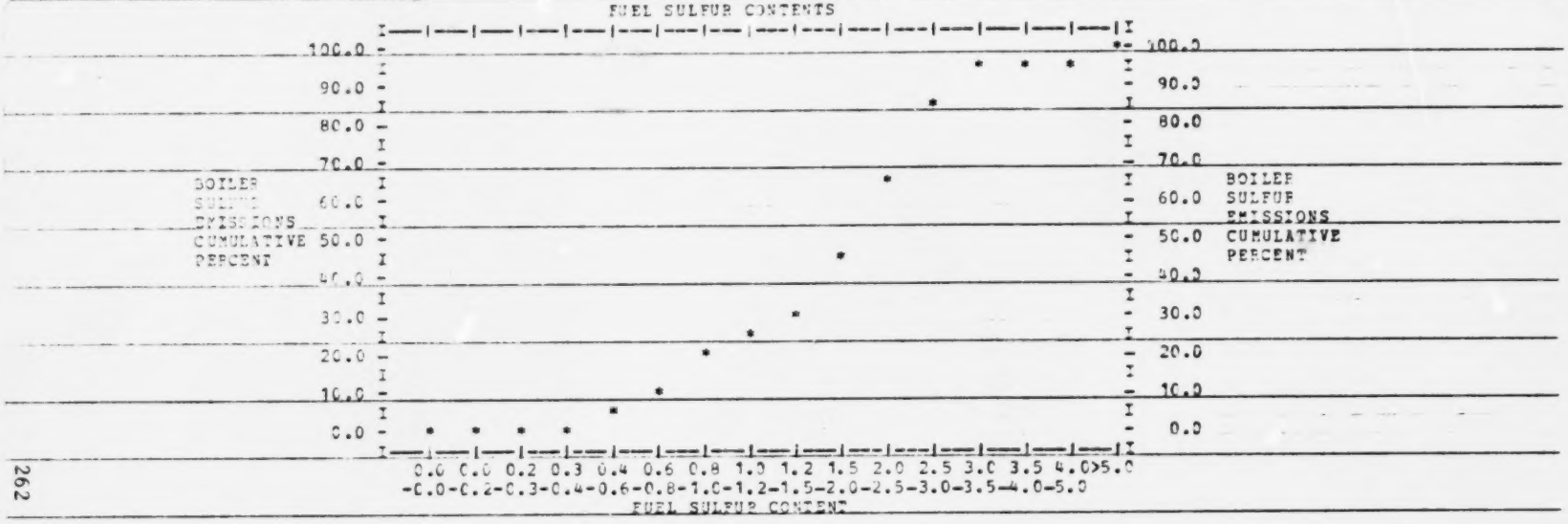
X--INDIVIDUAL BOILERS
*--INDIVIDUAL PLANTS

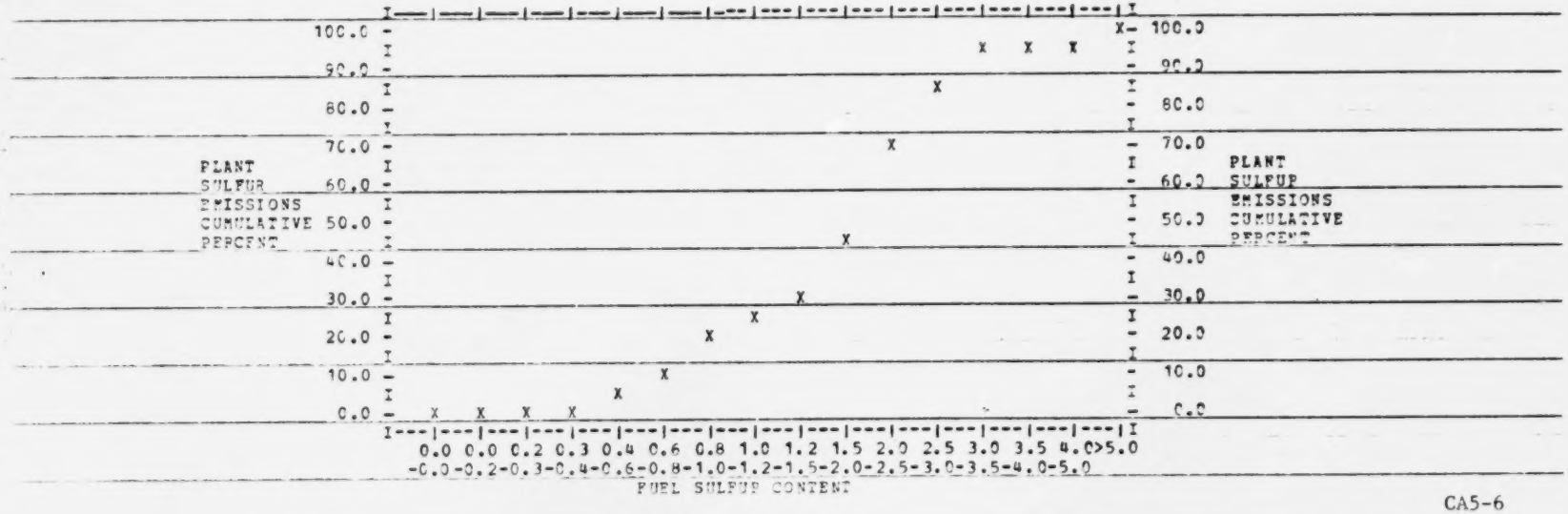
CAPACITY RANGES, MBTU/HR



NUMBER OF BOILERS (ALL DATA) = 3092
NUMBER OF PLANTS (ALL DATA) = 1711

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS





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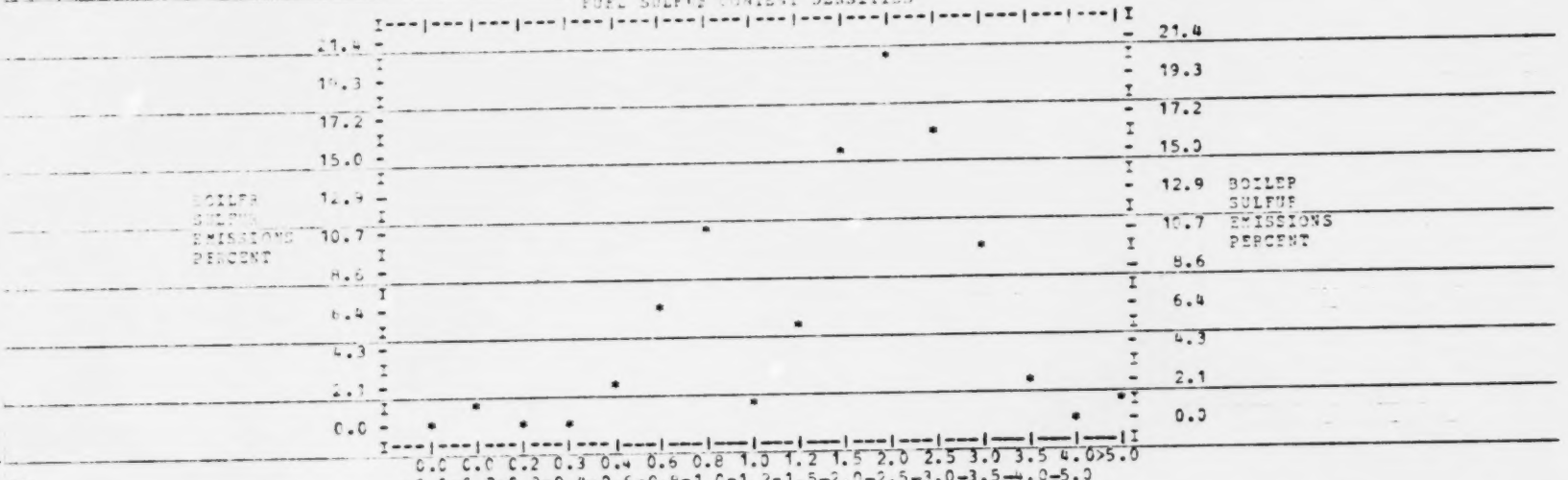
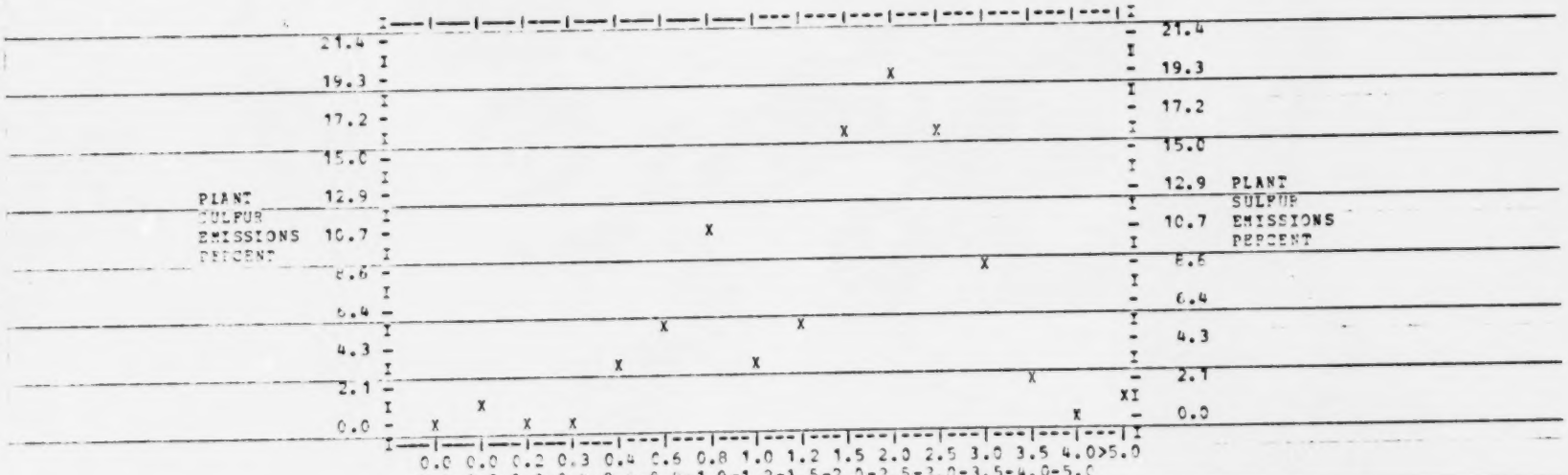
NUMBER OF BOILERS (ALL DATA) = 3092
NUMBER OF PLANTS (ALL DATA) = 1711

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 3092

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, QBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	29736.	6842.	861.	582.	3012.	3191.	2292.	437.	1562.
11-	20	3537.	854.	255.	159.	966.	1350.	20343.	1401.	524.
21-	30	3346.	1843.	241.	244.	744.	2239.	2515.	218.	1345.
31-	40	1827.	11988.	230.	154.	749.	960.	3007.	288.	331.
41-	50	961.	118.	355.	25.	1395.	262.	1900.	60.	338.
51-	60	828.	2256.	0.	0.	1045.	929.	1113.	262.	1183.
61-	70	1792.	375.	571.	999.	24.	99.	1581.	0.	791.
71-	80	413.	1355.	0.	0.	150.	2858.	1493.	225.	1324.
81-	90	341.	432.	6.	0.	1081.	1345.	638.	0.	93.
91-	100	1314.	47419.	168.	628.	339.	375.	2140.	1383.	433.
101-	200	10604.	3845.	2167.	916.	2212.	2346.	6148.	0.	3175.
201-	300	1736.	1531.	1714.	0.	0.	1411.	865.	529.	0.
301-	400	270.	1728.	0.	838.	0.	2544.	610.	0.	0.
401-	500	11700.	1031.	501.	0.	87.	1767.	921.	0.	1136.
501-	600	1080.	2037.	0.	0.	1200.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	1303.	0.	0.
701-	800	0.	4090.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	360.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	4.	1908.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	168.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		68767.	89665.	7071.	4543.	13004.	21675.	46990.	4801.	12235.
CUMUL. TOTALS		68767.	158432.	165503.	170046.	183050.	204724.	251714.	256515.	268749.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0- 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	8186.	1328.	1302.	835.	739.	0.	0.	59954.	59954.
11- 20	2540.	1739.	873.	551.	56.	0.	139.	34985.	94939.
21- 30	2182.	2291.	1255.	415.	0.	41.	0.	18918.	113857.
31- 40	2709.	592.	1537.	832.	0.	0.	99.	25364.	139221.
41- 50	1548.	1958.	2460.	1086.	269.	0.	0.	12750.	151971.
51- 60	2193.	2438.	677.	240.	82.	0.	80.	13326.	165297.
61- 70	329.	1403.	1293.	632.	0.	0.	96.	9985.	175281.
71- 80	350.	1379.	876.	0.	0.	0.	0.	10422.	185704.
81- 90	462.	1505.	24.	0.	0.	0.	0.	5927.	191631.
91- 100	2886.	1441.	530.	0.	0.	0.	0.	59056.	250687.
101- 200	336.	4543.	2721.	1162.	442.	0.	0.	40620.	291306.
201- 300	420.	2677.	0.	0.	0.	0.	0.	10950.	302256.
301- 400	0.	580.	0.	565.	0.	0.	0.	7145.	309401.
401- 500	0.	0.	0.	0.	0.	0.	0.	17143.	326543.
501- 600	0.	0.	0.	0.	0.	0.	0.	4317.	330860.
601- 700	0.	0.	0.	0.	0.	0.	0.	1303.	332164.
701- 800	0.	0.	0.	0.	0.	0.	0.	4090.	336254.
801- 900	0.	0.	0.	0.	0.	0.	0.	360.	336613.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	336613.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	1912.	338525.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	168.	338693.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
COLUMN TOTALS	24146.	23874.	13569.	6319.	1581.	41.	414.	338693.	
CUMUL. TOTALS	292896.	316769.	330339.	336657.	338239.	338279.	338693.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
[illegible]	0	1157.	-081.	23.	7.	2276.	199.	7.	99.	1138.
1-	10	21102.	2636.	512.	133.	651.	2020.	1509.	44.	168.
11-	20	1506.	484.	84.	102.	432.	210.	325.	523.	230.
21-	30	1620.	1050.	110.	0.	503.	1504.	1642.	0.	244.
31-	40	882.	587.	117.	0.	564.	948.	17611.	36.	235.
41-	50	1451.	1044.	673.	0.	983.	594.	1241.	631.	463.
51-	60	982.	392.	99.	0.	845.	1183.	2144.	209.	453.
61-	70	360.	108.	226.	0.	0.	242.	511.	0.	575.
71-	80	277.	757.	0.	0.	459.	0.	102.	225.	168.
81-	90	193.	82.	44.	0.	1234.	638.	520.	0.	93.
91-	100	1163.	2230.	0.	174.	329.	224.	382.	567.	379.
101-	200	12732.	6004.	2510.	1472.	3818.	1372.	6163.	2218.	1625.
201-	300	2116.	1737.	313.	578.	1323.	2444.	3570.	529.	1846.
301-	400	12.	57285.	896.	595.	1541.	2146.	2505.	420.	0.
401-	500	104.	2429.	501.	1007.	1161.	2949.	2334.	0.	3390.
501-	600	0.	279.	0.	0.	1200.	0.	0.	0.	133.
601-	700	0.	1738.	1042.	0.	0.	0.	4766.	1654.	0.
701-	800	0.	6575.	2220.	0.	0.	1042.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	1396.	1542.	0.
901-	1000	11700.	0.	954.	0.	0.	0.	0.	0.	0.
1001-	2000	4.	3514.	0.	0.	0.	691.	1233.	0.	0.
2001-	3000	252.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		57613.	92491.	10326.	4067.	16919.	18506.	46580.	8696.	11236.
CUMUL. TOTALS		57613.	150604.	160930.	164997.	181916.	200423.	249003.	257699.	268934.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL BOILERS AND ALL FUELS

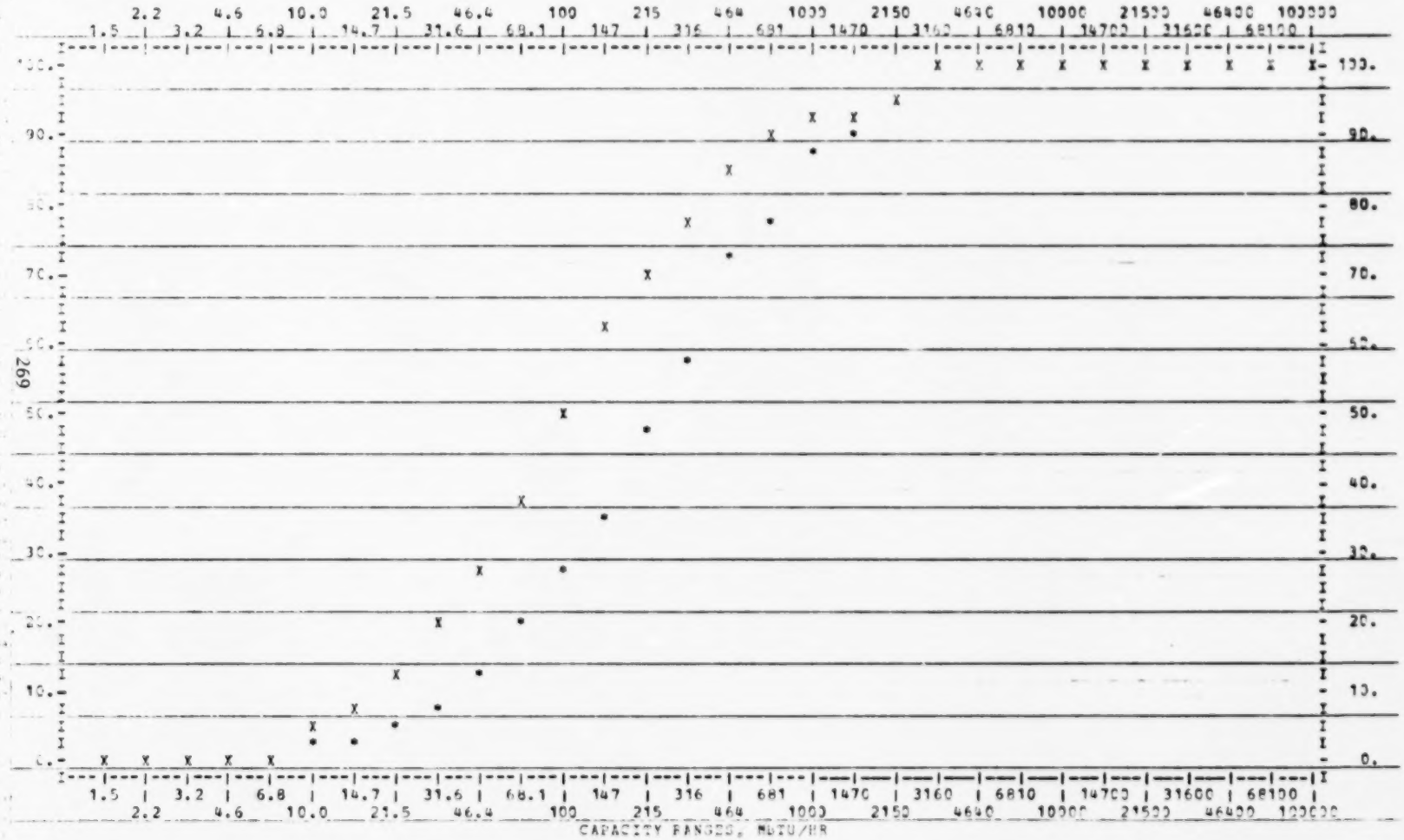
TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0	467.	23.	480.	0.	424.	0.	0.	10382.	10382.
1- 10	750.	740.	981.	310.	209.	0.	0.	31762.	42143.
11- 20	1202.	1224.	147.	0.	56.	0.	0.	7205.	49348.
21- 30	1045.	1520.	422.	525.	0.	0.	0.	10291.	59639.
31- 40	1438.	352.	940.	459.	0.	0.	0.	24228.	83867.
41- 50	1734.	1246.	711.	52.	265.	0.	122.	11271.	95137.
51- 60	1983.	1218.	533.	138.	82.	41.	0.	9902.	105039.
61- 70	993.	1004.	1126.	218.	0.	0.	0.	5364.	110403.
71- 80	726.	1455.	296.	0.	0.	0.	0.	4465.	114868.
81- 90	300.	1176.	236.	0.	0.	0.	0.	4516.	119384.
91- 100	542.	1358.	425.	234.	0.	0.	0.	8006.	127390.
101- 200	1661.	5229.	3792.	2711.	442.	0.	275.	52023.	179414.
201- 300	3434.	589.	1550.	288.	0.	0.	0.	20317.	199731.
301- 400	7550.	975.	699.	565.	0.	0.	0.	75189.	274920.
401- 500	469.	0.	1327.	0.	0.	0.	0.	15670.	290590.
501- 600	0.	1842.	0.	0.	0.	0.	0.	3454.	294044.
601- 700	1691.	2617.	0.	0.	0.	0.	0.	13526.	307570.
701- 800	0.	0.	0.	0.	0.	0.	0.	9837.	317407.
801- 900	0.	0.	0.	0.	0.	0.	0.	2938.	320345.
901- 1000	0.	0.	0.	0.	0.	0.	0.	12654.	332999.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	5441.	338441.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	252.	338693.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	338693.
COLUMN TOTALS	26104.	22577.	13665.	5497.	1477.	41.	397.	338693.	
CUMUL. TOTALS	295038.	317616.	331281.	338255.	338295.	338693.			

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

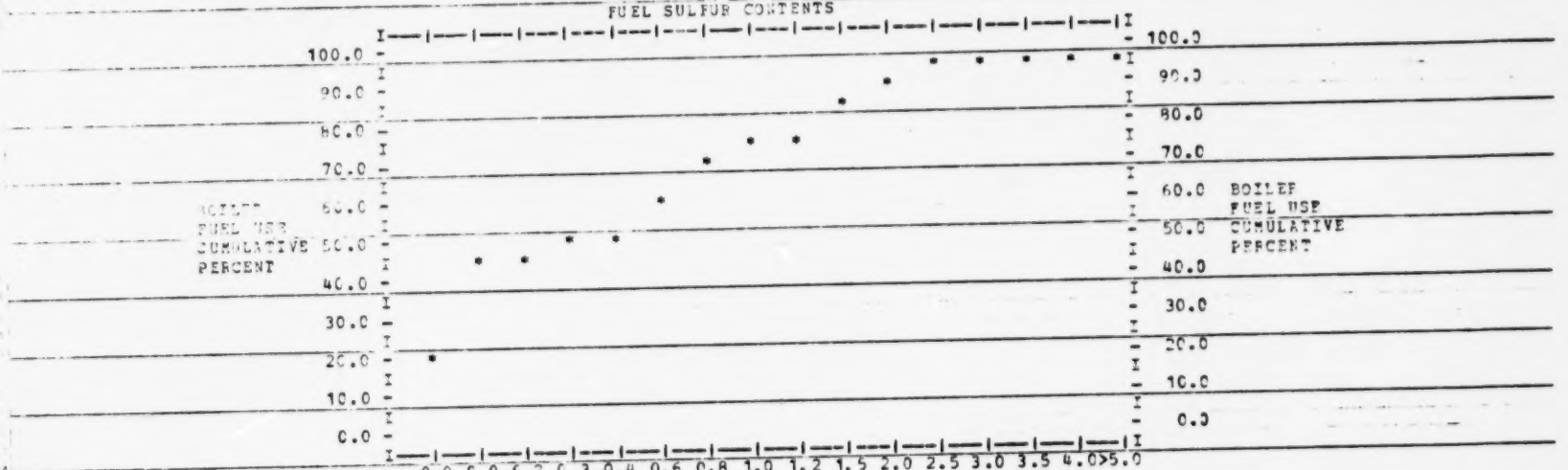
CAPACITY RANGES, MBTU/HR

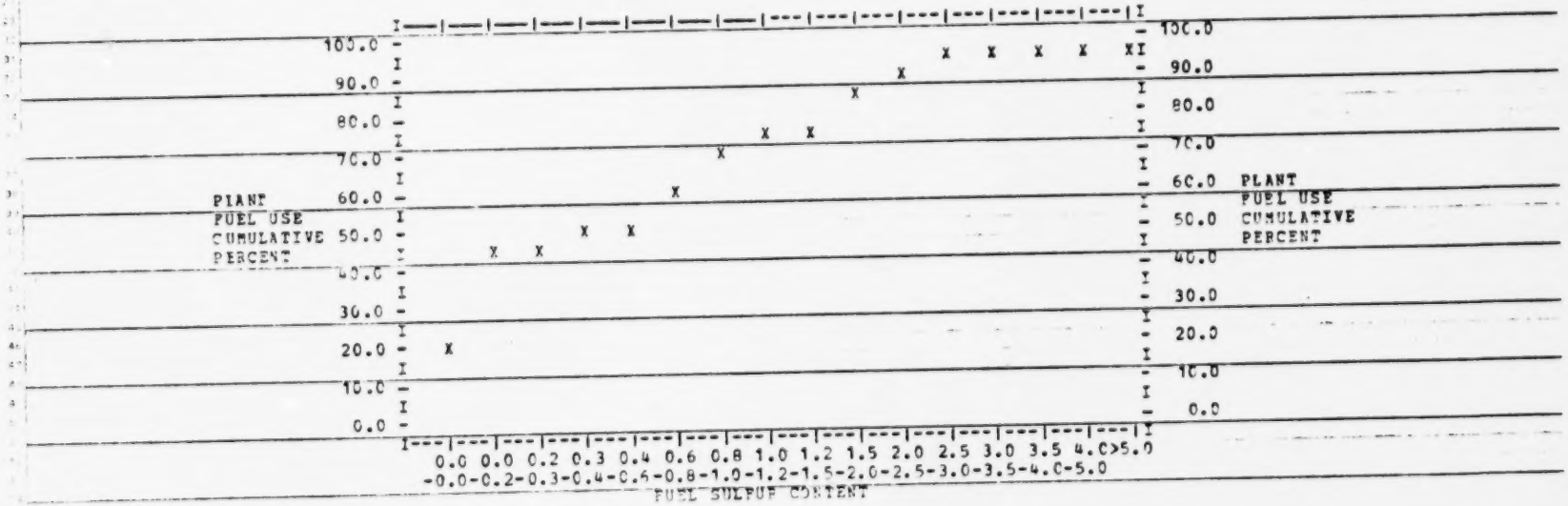


CAPACITY RANGES, MBTU/HR

BOILER CAPACITIES (ALL DATA) = 96248.
PLANT CAPACITIES (ALL DATA) = [illegible].

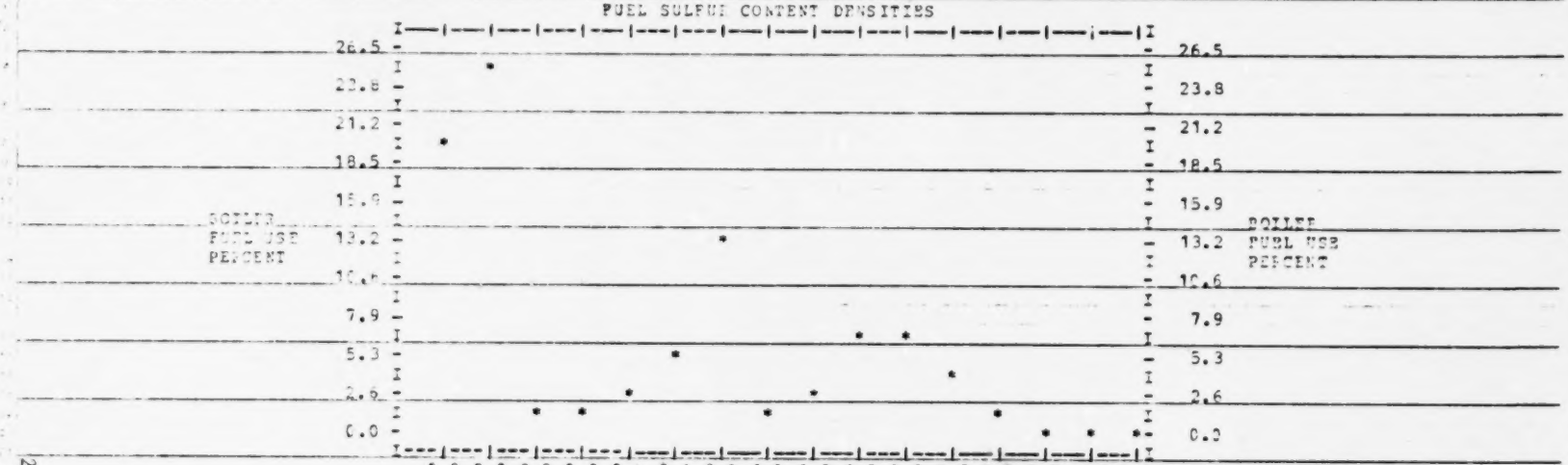
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENTS

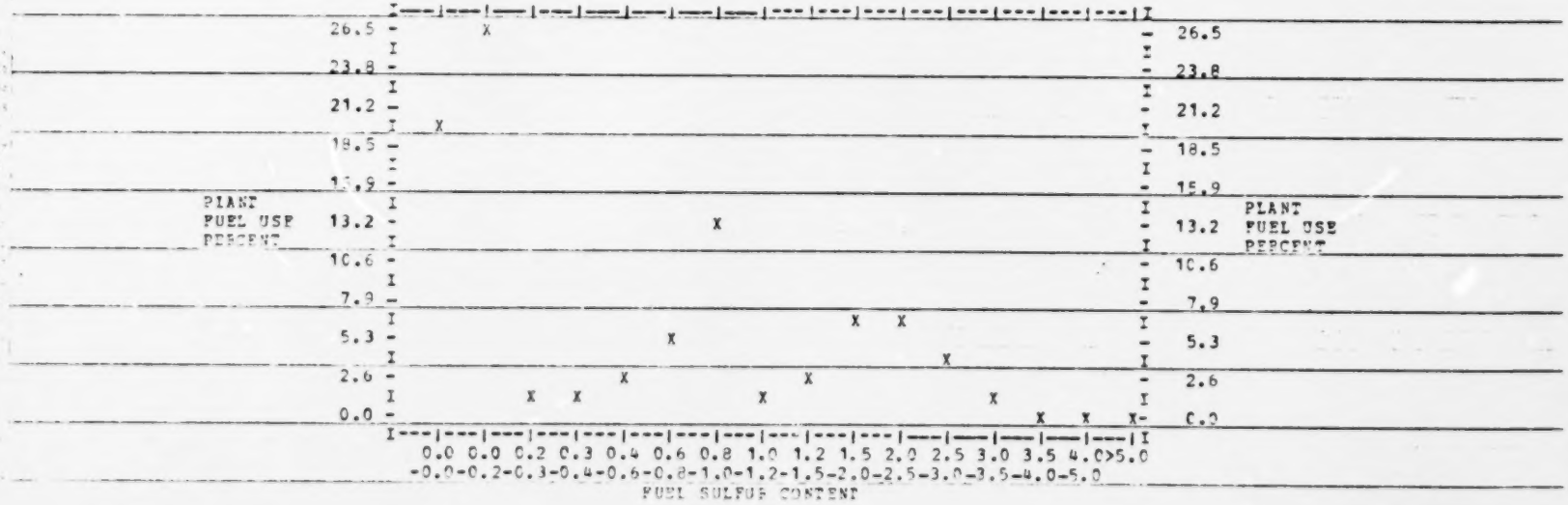




BOILER CAPACITIES (ALL DATA) = 96248.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL BOILERS AND ALL FUELS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 96248.
PLANT CAPACITIES (ALL DATA) = 96248.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	EQUAL ZERO	STACK HEIGHTS IN FEET 1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
EQUAL 0	128	20	29	17	5	4	2	2	3	1	0	2	0	1	0
1- 10	529	42	88	89	64	64	25	16	8	1	4	4	0	1	0
11- 20	83	11	33	27	25	29	21	12	7	0	1	0	0	0	0
21- 30	47	4	15	11	17	15	13	18	6	9	0	4	0	0	0
31- 40	41	2	19	8	7	10	5	6	4	3	3	0	0	0	0
41- 50	31	2	6	10	4	11	7	8	14	10	2	2	0	0	1
51- 60	16	0	4	5	8	1	2	13	4	3	2	2	1	0	0
61- 70	12	0	2	4	5	3	3	4	6	2	1	2	0	0	0
71- 80	17	0	5	2	3	3	2	5	4	2	2	1	1	0	0
81- 90	7	0	2	1	2	2	0	4	3	2	1	1	0	0	0
91- 100	13	1	0	5	3	3	1	3	6	2	1	4	0	0	0
101- 200	41	1	12	12	13	6	5	14	15	8	7	11	2	0	0
201- 300	8	2	4	2	2	3	5	2	4	8	1	2	2	0	0
301- 400	3	1	0	0	0	2	0	1	0	1	3	3	0	0	0
401- 500	2	1	1	1	2	1	0	1	1	1	2	1	0	0	0
501- 600	3	0	0	0	1	0	0	1	0	0	0	0	0	1	0
601- 700	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
801- 900	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
1001- 2000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	941	88	222	174	181	150	96	115	105	59	36	42	7	3	1
CUMUL. TOTALS	0	88	310	484	665	815	911	1026	1131	1190	1226	1268	1275	1278	1279

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL BOILERS AND ALL FUELS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET 401- 450	451- 500	501- 550	551- 600	601- 650	651- 700	701- 750	751- 800	801- 850	851- 900	901- 950	951- 1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	917	917
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	255	1172
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	159	1331
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	110	1441
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	108	1549
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	61	1610
61- 70	0	0	0	0	0	0	0	0	0	0	0	0	0	47	1657
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	48	1705
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1730
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	42	1772
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	147	1919
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	39	1958
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1972
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1986
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1991
601- 700	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1993
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1995
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1997
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1999
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2001
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2002
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2002
COLUMN TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	2216	2002
TOTAL TOTALS	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235	1235		

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL BOILERS AND ALL FUELS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.05	1.08	1.16	1.13	1.06	1.22	1.20	1.20	1.00
11-	20	1.00	1.15	1.72	1.42	1.36	1.92	1.50	1.25	1.00
21-	30	3.00	1.09	1.71	1.69	2.00	1.20	1.29	1.75	2.50
31-	40	1.00	1.36	1.38	1.27	3.60	3.60	1.75	1.50	4.00
41-	50	4.00	1.31	2.00	1.86	2.25	2.00	3.00	1.00	2.00
51-	60	0.0	1.78	2.18	1.81	3.33	2.00	1.50	2.00	0.0
61-	70	0.0	1.33	2.60	1.86	1.50	2.50	3.50	0.0	1.00
71-	80	4.00	2.67	2.40	1.40	1.00	0.0	2.00	1.00	2.00
81-	90	0.0	1.25	1.71	2.17	1.00	0.0	1.00	0.0	1.00
91-	100	0.0	1.00	1.33	3.13	2.86	0.0	1.00	1.00	0.0
101-	200	8.00	1.83	2.58	3.31	2.13	3.08	2.17	1.00	2.00
201-	300	3.50	2.20	5.07	2.45	2.67	3.67	0.0	0.0	0.0
301-	400	0.0	3.25	5.00	5.00	11.00	5.00	0.0	0.0	0.0
401-	500	11.00	1.33	4.00	3.75	5.00	3.00	3.00	0.0	0.0
501-	600	0.0	7.00	0.0	1.00	4.00	0.0	0.0	0.0	0.0
601-	700	0.0	0.0	4.00	27.33	2.00	4.00	23.00	0.0	0.0
701-	800	0.0	0.0	2.00	0.0	5.00	0.0	1.00	0.0	0.0
801-	900	0.0	1.00	48.00	20.00	0.0	0.0	0.0	0.0	0.0
901-	1000	0.0	0.0	4.00	0.0	0.0	0.0	0.0	0.0	0.0
1001-	2000	0.0	7.00	4.33	0.0	0.0	0.0	0.0	0.0	0.0
2001-	3000	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4001-	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROSS TOTALS		2.04	1.28	1.92	2.19	2.14	2.14	2.00	1.31	1.53
CANAL. TOTALS		0.0	1.28	1.63	1.77	1.89	1.83	1.84	1.83	1.82

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL BOILERS AND ALL FUELS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	0.80-0.89	0.90-0.99	PLANT LOAD FACTORS TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.0	0.0	1.39	0.0	1.47	1.44	0.0	0.0
1- 10	1.00	1.25	1.18	0.0	1.62	1.17	1.13	1.17
11- 20	5.00	1.33	1.83	0.0	1.14	1.51	1.21	1.23
21- 30	3.00	1.00	1.60	0.0	1.56	1.60	1.26	1.28
31- 40	1.00	1.00	1.71	0.0	1.67	1.71	1.29	1.31
41- 50	2.00	2.00	1.94	0.0	3.50	1.98	1.34	1.36
51- 60	3.00	3.00	2.75	0.0	1.33	2.02	1.38	1.39
61- 70	3.00	0.0	2.15	0.0	0.0	2.15	1.40	1.42
71- 80	0.0	0.0	2.20	0.0	0.0	2.20	1.42	1.43
81- 90	1.00	0.0	1.59	0.0	0.0	1.59	1.42	1.44
91- 100	3.00	1.00	2.21	0.0	6.00	2.44	1.44	1.46
101- 200	3.00	1.50	2.64	0.0	2.17	2.90	1.57	1.58
201- 300	0.0	0.0	3.52	0.0	0.0	3.52	1.63	1.64
301- 400	0.0	0.0	4.94	0.0	5.50	5.00	1.68	1.68
401- 500	0.0	0.0	4.00	0.0	0.0	4.00	1.71	1.71
501- 600	0.0	0.0	4.75	0.0	0.0	4.75	1.71	1.72
601- 700	0.0	0.0	16.43	0.0	0.0	16.43	1.79	1.79
701- 800	0.0	0.0	4.50	0.0	0.0	4.50	1.79	1.79
801- 900	0.0	0.0	23.00	0.0	0.0	23.00	1.84	1.83
901- 1000	0.0	0.0	4.00	0.0	3.00	3.50	1.84	1.84
1001- 2000	0.0	0.0	5.40	0.0	0.0	5.40	1.85	1.85
2001- 3000	0.0	0.0	2.00	0.0	0.0	2.00	1.85	1.85
3001- 4000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
4001- 5000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
5001- 6000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
6001- 7000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
7001- 8000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
8001- 9000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
9001- 10000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	1.85	1.85
COLUMN TOTALS	2.11	1.27	1.83	0.0	1.62	1.61		
CUMUL. TOTALS	1.83	1.82	1.82	1.82	1.79			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	7	0	0	0	0	0	0	0	0
1-	10	5	125	46	23	10	4	1	1	2
11-	20	7	25	10	11	14	3	1	1	0
21-	30	4	22	21	17	9	7	3	1	0
31-	40	1	4	9	8	3	2	1	1	1
41-	50	2	7	4	5	10	3	4	2	1
51-	60	2	1	10	3	5	6	1	0	0
61-	70	1	2	5	4	10	2	0	0	0
71-	80	0	3	9	2	6	0	1	1	0
81-	90	0	2	0	2	0	0	2	0	1
91-	100	0	2	4	7	3	0	0	1	0
101-	200	2	8	7	4	2	5	1	1	1
201-	300	0	2	0	0	1	0	0	2	0
301-	400	0	2	1	0	1	0	0	0	0
401-	500	0	0	0	0	1	0	0	0	0
501-	600	0	0	0	0	0	0	0	0	0
601-	700	0	0	0	0	0	0	0	0	0
701-	800	0	0	0	0	1	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	0	0	0	0	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-12000		0	0	0	0	0	0	0	0	0
COLUMN TOTALS		31	202	128	84	75	32	15	11	6
CUMUL. TOTALS		0	202	330	414	490	522	537	548	554

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80- 0.89	0.90- 0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	7	0	36	43	0	0
1-	10	2	5	226	0	23	249	226	249
11-	20	7	6	87	0	3	90	313	339
21-	30	0	2	86	0	5	91	399	430
31-	40	1	0	32	0	2	34	431	464
41-	50	0	0	36	0	0	36	469	502
51-	60	0	0	28	0	0	28	497	530
61-	70	0	0	24	0	0	24	521	554
71-	80	1	0	23	0	0	23	544	577
81-	90	0	0	7	0	0	7	551	584
91-	100	1	1	20	0	0	20	571	604
101-	200	2	0	28	0	1	29	599	633
201-	300	0	0	5	0	0	5	604	638
301-	400	0	0	4	0	0	4	608	642
401-	500	0	0	1	0	0	1	609	643
501-	600	0	0	0	0	0	0	609	643
601-	700	0	0	0	0	0	0	609	643
701-	800	0	0	1	0	0	1	610	644
801-	900	0	0	0	0	0	0	610	644
901-	1000	0	0	0	0	0	0	610	644
1001-	2000	0	0	0	0	0	0	610	644
2001-	3000	0	0	0	0	0	0	610	644
3001-	4000	0	0	0	0	0	0	610	644
4001-	5000	0	0	0	0	0	0	610	644
5001-	10000	0	0	0	0	0	0	610	644
6001-	7000	0	0	0	0	0	0	610	644
7001-	8000	0	0	0	0	0	0	610	644
8001-	9000	0	0	0	0	0	0	610	644
9001-	10000	0	0	0	0	0	0	610	644
10001-	100000	0	0	0	0	0	0	610	644
COLUMN TOTALS		12	20	617	0	70	687		
CUMUL. TOTALS		566	566	566	566	566			

BOILER USE DURATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MMBTU/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	6	0	0	0	0	0	0	0	0
1-	10	1	119	27	11	7	1	0	1	0
11-	20	1	20	2	4	2	2	0	0	1
21-	30	1	15	7	5	5	1	0	1	0
31-	40	1	5	2	1	3	1	0	0	0
41-	50	0	4	1	3	2	1	0	2	1
51-	60	0	3	1	1	1	1	2	0	0
61-	70	0	3	2	3	0	1	1	0	0
71-	80	0	1	2	0	0	0	0	1	0
81-	90	1	1	1	0	0	0	1	0	2
91-	100	0	1	0	0	4	0	0	1	0
101-	200	3	4	12	7	5	0	3	1	0
201-	300	0	2	5	3	3	0	0	0	0
301-	400	0	2	1	1	3	0	0	0	0
401-	500	0	0	0	0	2	0	0	0	0
501-	600	0	0	0	0	0	0	0	0	0
601-	700	0	1	0	0	0	1	1	0	0
701-	800	0	0	0	0	1	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	0	0	0	0	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
EQUAL	TOTALS	13	181	63	42	38	17	8	7	4
LESS	THAN	0	181	244	286	324	341	349	356	360

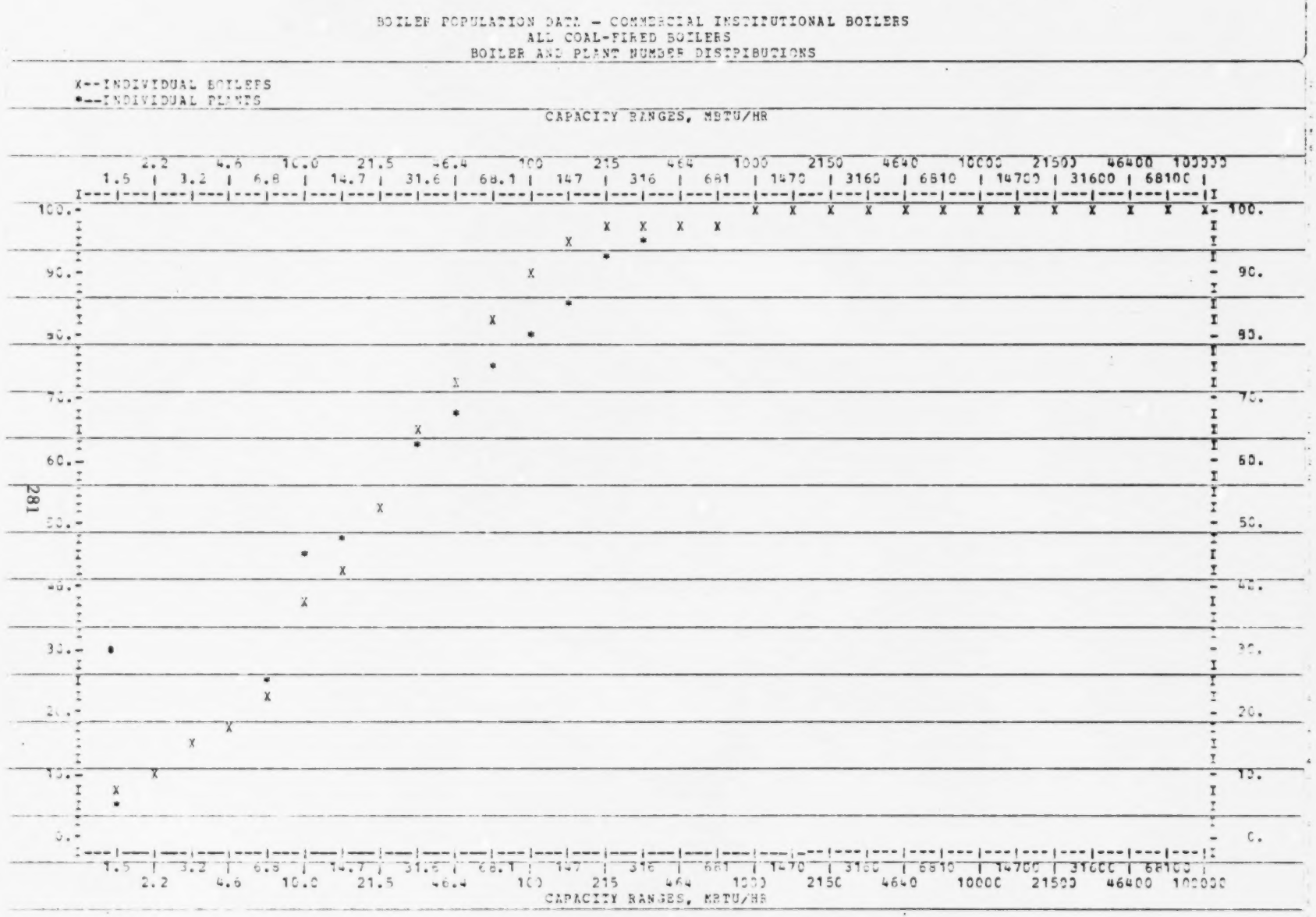
BOILER INSTALLATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MLBS/HR		PLANT LOAD FACTORS 0.80- 0.99	0.90- 0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	POW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	6	0	17	23	0	0
1-	10	1	2	170	0	11	181	170	181
11-	20	0	1	33	0	1	34	203	215
21-	30	0	0	35	0	4	39	238	254
31-	40	1	2	15	0	2	17	253	271
41-	50	1	1	16	0	0	16	269	287
51-	60	1	1	11	0	0	11	280	298
61-	70	0	0	10	0	0	10	290	308
71-	80	0	0	4	0	0	4	294	312
81-	90	0	0	6	0	0	6	300	318
91-	100	0	2	11	0	0	11	311	329
101-	200	0	0	43	0	1	44	354	373
201-	300	1	0	14	0	0	14	368	387
301-	400	0	0	7	0	0	7	375	394
401-	500	0	0	2	0	0	2	377	396
501-	600	0	0	0	0	0	0	377	396
601-	700	0	0	3	0	0	3	380	399
701-	800	0	0	1	0	0	1	381	400
801-	900	0	0	0	0	0	0	381	400
901-	1000	0	0	0	0	0	0	381	400
1001-	2000	0	0	0	0	0	0	381	400
2001-	3000	0	0	0	0	0	0	381	400
3001-	4000	0	0	0	0	0	0	381	400
4001-	5000	0	0	0	0	0	0	381	400
5001-	6000	0	0	0	0	0	0	381	400
6001-	7000	0	0	0	0	0	0	381	400
7001-	8000	0	0	0	0	0	0	381	400
8001-	9000	0	0	0	0	0	0	381	400
9001-	10000	0	0	0	0	0	0	381	400
10001-	20000	0	0	0	0	0	0	381	400
20001-	30000	0	0	0	0	0	0	381	400
30001-	40000	0	0	0	0	0	0	381	400
40001-	50000	0	0	0	0	0	0	381	400
50001-	100000	0	0	0	0	0	0	381	400
COLUMN TOTALS		5	9	387	0	36	423		
CUMULATIVE TOTALS		365	374	374	374	410			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
*--INDIVIDUAL PLANTS

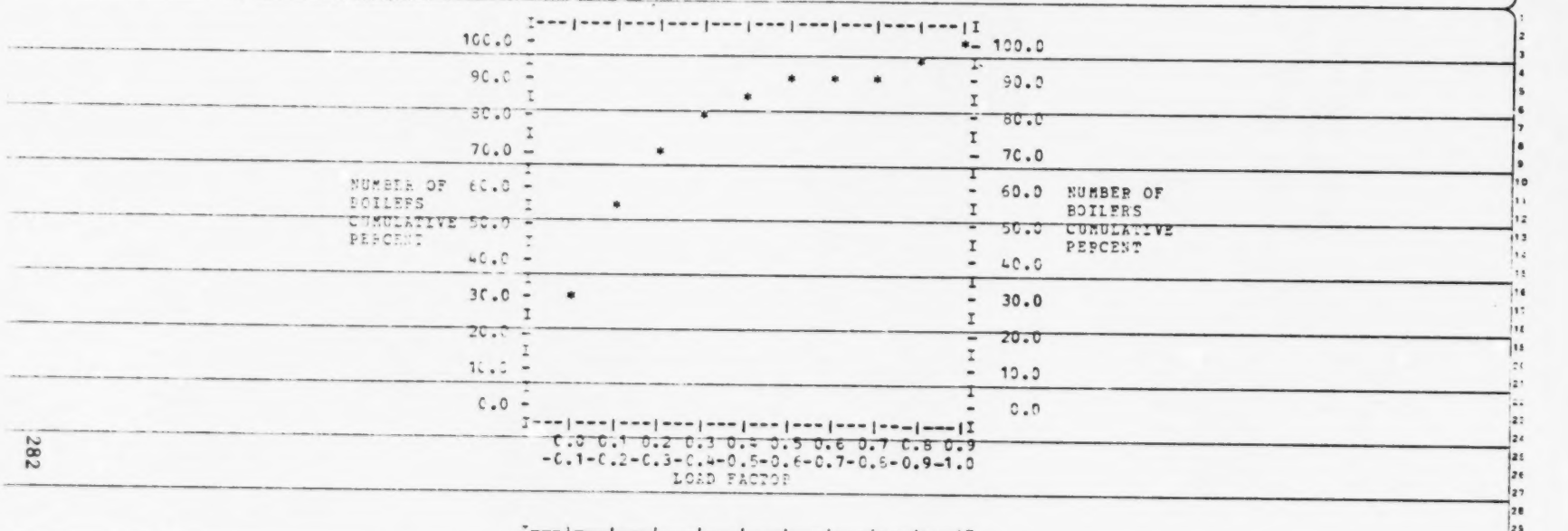


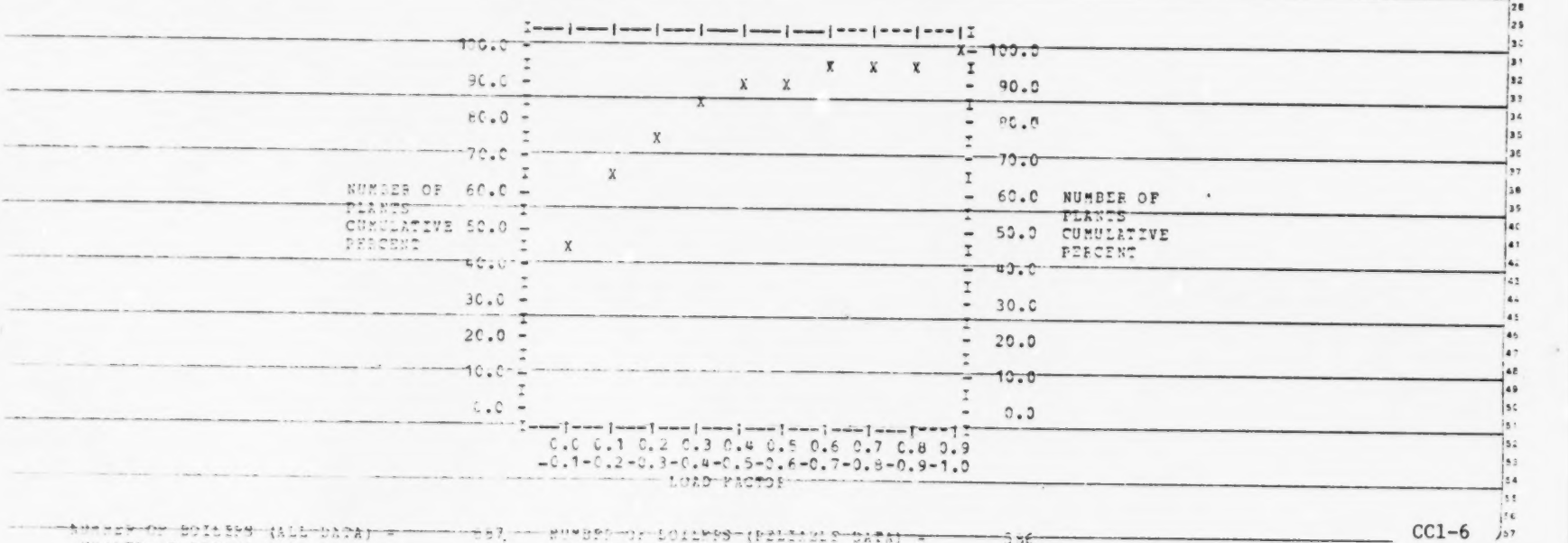
281

NUMBER OF BOILERS (ALL DATA) = 682 NUMBER OF BOILERS (RELIABLE DATA) = 586
NUMBER OF PLANTS (ALL DATA) = 427 NUMBER OF PLANTS (RELIABLE DATA) = 374

CC1-5

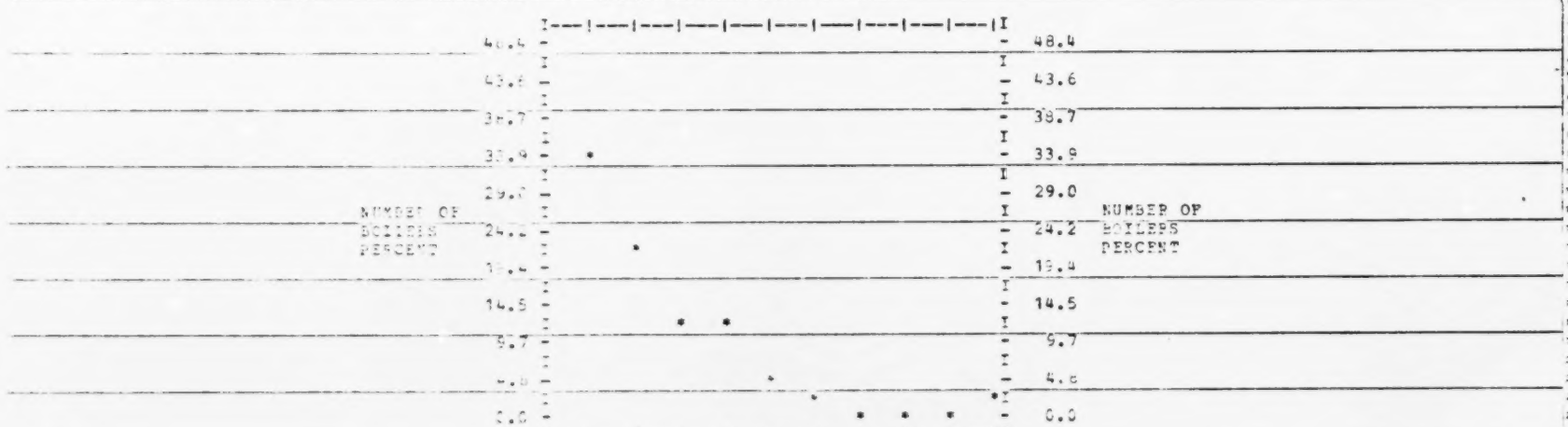
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTORS

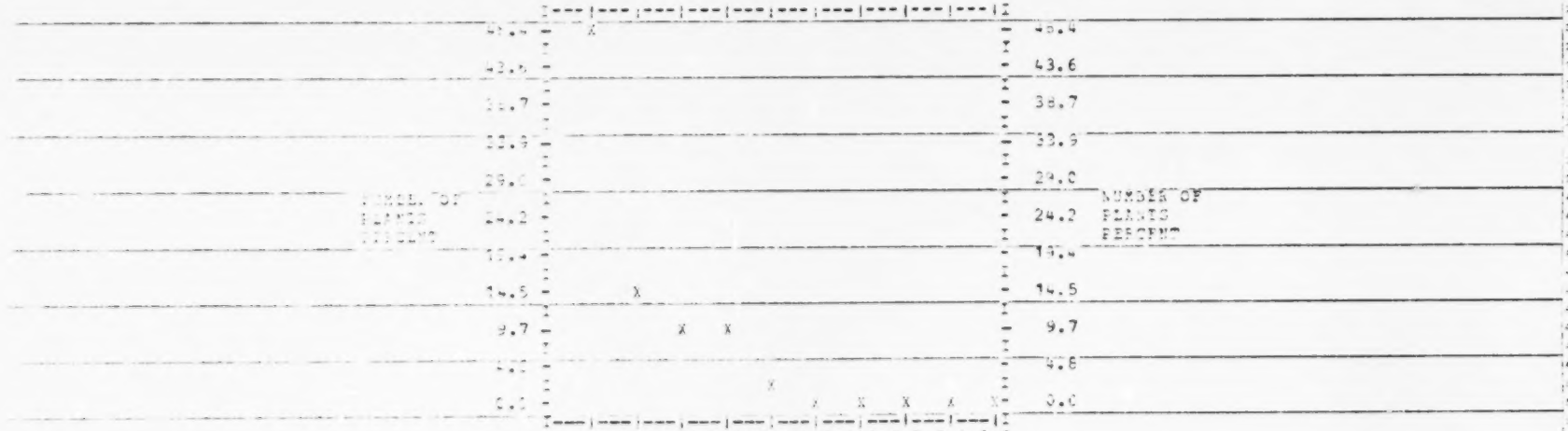




NUMBER OF BOILERS (ALL DATA) = 557 NUMBER OF BOILERS (RELIABLE DATA) = 536
NUMBER OF PLANTS (ALL DATA) = 423 NUMBER OF PLANTS (RELIABLE DATA) = 374

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTOR DENSITIES





BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	33.	767.	155.	54.	28.	21.	4.	5.	20.
11-	20	127.	324.	163.	183.	224.	47.	20.	17.	0.
21-	30	108.	573.	581.	441.	237.	170.	63.	27.	0.
31-	40	40.	136.	306.	216.	100.	72.	40.	40.	40.
41-	50	100.	328.	190.	230.	494.	150.	185.	95.	50.
51-	60	120.	51.	583.	180.	292.	336.	60.	0.	0.
61-	70	62.	126.	313.	264.	649.	124.	0.	0.	0.
71-	80	0.	226.	652.	155.	472.	0.	80.	75.	0.
81-	90	0.	168.	0.	166.	0.	0.	172.	0.	90.
91-	100	0.	196.	384.	687.	280.	0.	0.	100.	0.
101-	200	318.	665.	930.	507.	288.	668.	145.	146.	120.
201-	300	0.	560.	0.	0.	210.	0.	0.	430.	0.
301-	400	0.	830.	330.	0.	353.	0.	0.	0.	0.
401-	500	0.	0.	0.	0.	410.	0.	0.	0.	0.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	0.	0.	0.	0.	739.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		908.	4736.	4833.	3083.	4783.	1584.	769.	935.	320.
CUMUL. TOTALS		0.	4736.	9269.	12352.	17135.	18719.	19488.	20423.	20743.

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

BOILER LOAD FACTORS

CAPACITY MBTU'S/HR	0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	2.	27.	1116.	0.	110.	1226.	1116.	1226.
11- 20	116.	127.	1388.	0.	38.	1386.	2464.	2612.
21- 30	0.	53.	2228.	0.	138.	2361.	4687.	4973.
31- 40	35.	103.	1134.	0.	76.	1210.	5821.	6183.
41- 50	0.	0.	1822.	0.	0.	1822.	7643.	8005.
51- 60	0.	0.	1582.	0.	0.	1582.	9225.	9587.
61- 70	0.	0.	1538.	0.	0.	1538.	10763.	11125.
71- 80	72.	0.	1732.	0.	0.	1732.	12495.	12857.
81- 90	0.	0.	592.	0.	0.	592.	13087.	13449.
91- 100	100.	200.	[illegible]	0.	0.	[illegible]	15049.	15411.
101- 200	0.	0.	[illegible]	0.	160.	3969.	18828.	19380.
201- 300	0.	0.	1190.	0.	0.	1190.	20028.	20570.
301- 400	0.	0.	1313.	0.	0.	1313.	21341.	21883.
401- 500	0.	0.	410.	0.	0.	410.	21751.	22293.
501- 600	0.	0.	0.	0.	0.	0.	21751.	22293.
601- 700	0.	0.	0.	0.	0.	0.	21751.	22293.
701- 800	0.	0.	735.	0.	0.	735.	22486.	23028.
801- 900	0.	0.	0.	0.	0.	0.	22486.	23028.
901- 1000	0.	0.	0.	0.	0.	0.	22486.	23028.
1001- 2000	0.	0.	0.	0.	0.	0.	22486.	23028.
2001- 3000	0.	0.	0.	0.	0.	0.	22486.	23028.
3001- 4000	0.	0.	0.	0.	0.	0.	22486.	23028.
4001- 5000	0.	0.	0.	0.	0.	0.	22486.	23028.
5001- 6000	0.	0.	0.	0.	0.	0.	22486.	23028.
6001- 7000	0.	0.	0.	0.	0.	0.	22486.	23028.
7001- 8000	0.	0.	0.	0.	0.	0.	22486.	23028.
8001- 9000	0.	0.	0.	0.	0.	0.	22486.	23028.
9001- 10000	0.	0.	0.	0.	0.	0.	22486.	23028.
10001-100000	0.	0.	0.	0.	0.	0.	22486.	23028.
COLUMN TOTALS	325.	510.	22486.	0.	542.	23028.		
CUMUL. TOTALS	21068.	21578.	21578.	21578.	22120.			

CC2-2

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	1.	742.	109.	30.	19.	5.	0.	5.	0.
11- 20	17.	261.	26.	71.	40.	29.	0.	0.	20.
21- 30	29.	376.	190.	142.	135.	25.	0.	27.	0.
31- 40	0.	174.	68.	36.	106.	37.	0.	0.	0.
41- 50	0.	184.	43.	140.	90.	46.	0.	86.	42.
51- 60	0.	161.	60.	54.	52.	60.	120.	0.	0.
61- 70	0.	195.	126.	194.	0.	66.	63.	0.	0.
71- 80	0.	72.	148.	0.	0.	0.	0.	75.	0.
81- 90	83.	82.	90.	0.	0.	0.	90.	0.	179.
91- 100	0.	96.	0.	288.	391.	0.	0.	100.	0.
101- 200	490.	530.	1847.	1060.	831.	1083.	430.	146.	0.
201- 300	0.	539.	1233.	727.	661.	0.	0.	0.	0.
301- 400	0.	652.	330.	399.	1098.	0.	0.	0.	0.
401- 500	0.	0.	0.	0.	906.	0.	0.	0.	0.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601- 700	0.	630.	0.	0.	0.	700.	649.	0.	0.
701- 800	0.	0.	0.	0.	735.	0.	0.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	620.	4702.	4270.	3141.	5064.	2051.	1352.	439.	241.
CUMUL. TOTALS	0.	4702.	8972.	12113.	17177.	19228.	20530.	21019.	21260.

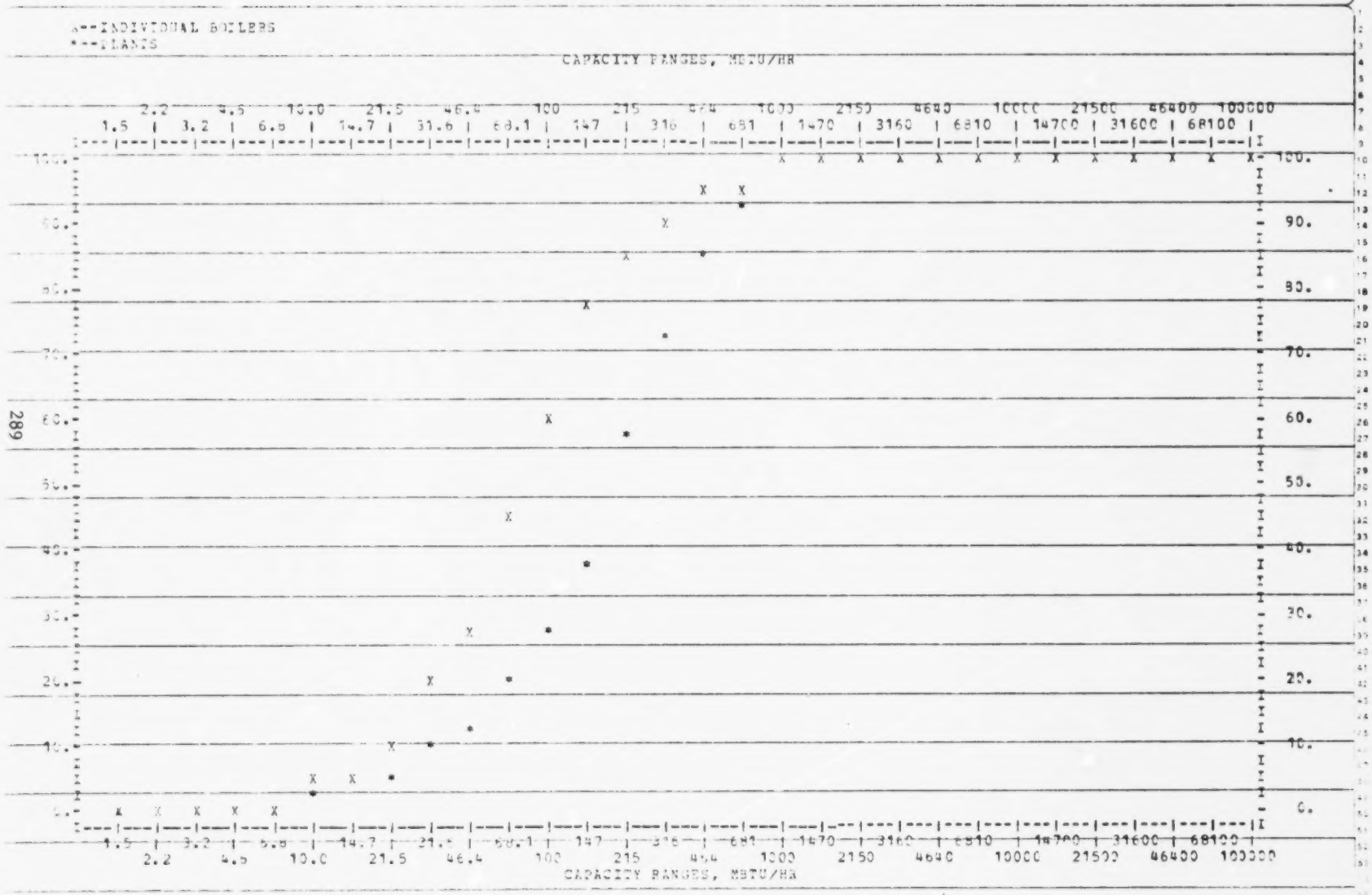
CC2-3

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MMBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
E.MAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	1.	5.	917.	0.	49.	966.	917.	966.
11-	20	0.	20.	484.	0.	14.	498.	1401.	1464.
21-	30	0.	0.	924.	0.	108.	1032.	2325.	2496.
31-	40	35.	36.	522.	0.	71.	593.	2847.	3089.
41-	50	42.	48.	721.	0.	0.	721.	3568.	3810.
51-	60	54.	51.	612.	0.	0.	612.	4180.	4422.
61-	70	0.	0.	644.	0.	0.	644.	4824.	5066.
71-	80	0.	0.	295.	0.	0.	295.	5119.	5361.
81-	90	0.	0.	524.	0.	0.	524.	5643.	5885.
91-	100	0.	200.	1075.	0.	0.	1075.	6718.	6960.
101-	200	0.	0.	6529.	0.	194.	6529.	13143.	13389.
201-	300	280.	0.	3440.	0.	0.	3440.	16583.	16929.
301-	400	0.	0.	2479.	0.	0.	2479.	19062.	19408.
401-	500	0.	0.	906.	0.	0.	906.	19968.	20314.
501-	600	0.	0.	0.	0.	0.	0.	19968.	20314.
601-	700	0.	0.	1979.	0.	0.	1979.	21947.	22293.
701-	800	0.	0.	735.	0.	0.	735.	22682.	23028.
801-	900	0.	0.	0.	0.	0.	0.	22682.	23028.
901-	1000	0.	0.	0.	0.	0.	0.	22682.	23028.
1001-	2000	0.	0.	0.	0.	0.	0.	22682.	23028.
2001-	3000	0.	0.	0.	0.	0.	0.	22682.	23028.
3001-	4000	0.	0.	0.	0.	0.	0.	22682.	23028.
4001-	5000	0.	0.	0.	0.	0.	0.	22682.	23028.
5001-	6000	0.	0.	0.	0.	0.	0.	22682.	23028.
6001-	7000	0.	0.	0.	0.	0.	0.	22682.	23028.
7001-	8000	0.	0.	0.	0.	0.	0.	22682.	23028.
8001-	9000	0.	0.	0.	0.	0.	0.	22682.	23028.
9001-	10000	0.	0.	0.	0.	0.	0.	22682.	23028.
10001-	20000	0.	0.	0.	0.	0.	0.	22682.	23028.
20001-	30000	0.	0.	0.	0.	0.	0.	22682.	23028.
30001-	40000	0.	0.	0.	0.	0.	0.	22682.	23028.
40001-	50000	0.	0.	0.	0.	0.	0.	22682.	23028.
50001-	100000	0.	0.	0.	0.	0.	0.	22682.	23028.
COLUMN TOTALS		412.	368.	22682.	0.	346.	23028.		
CUMUL. TOTALS		21672.	22062.	22062.	22062.	22408.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS



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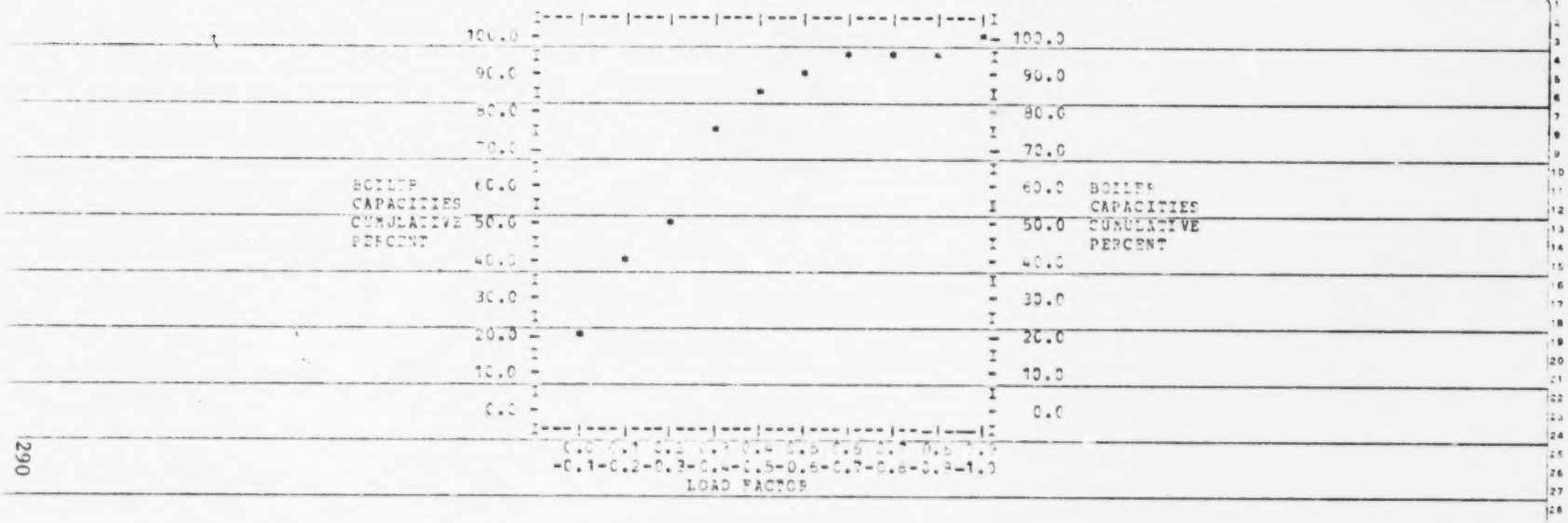
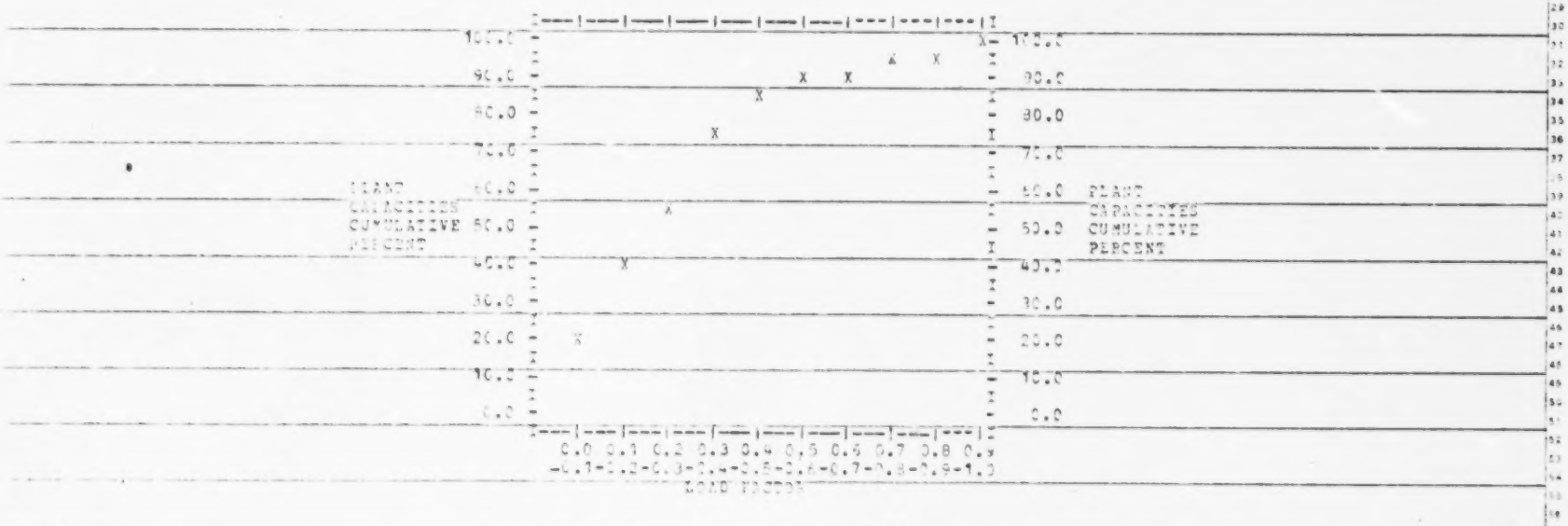
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTORS





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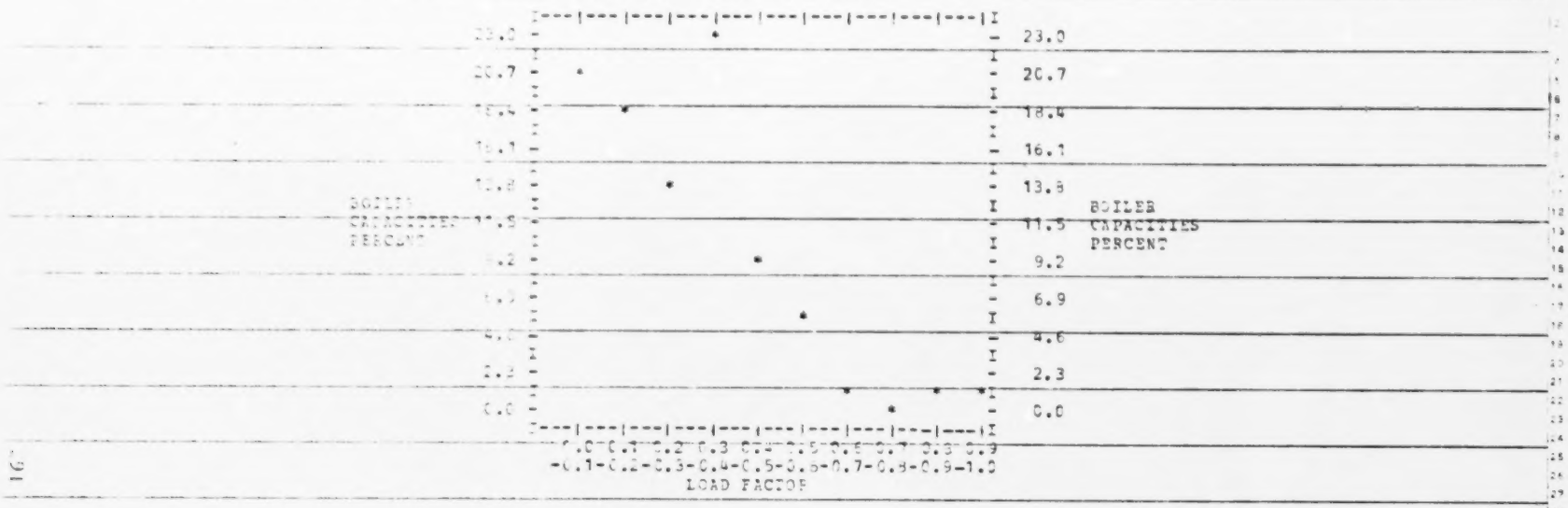
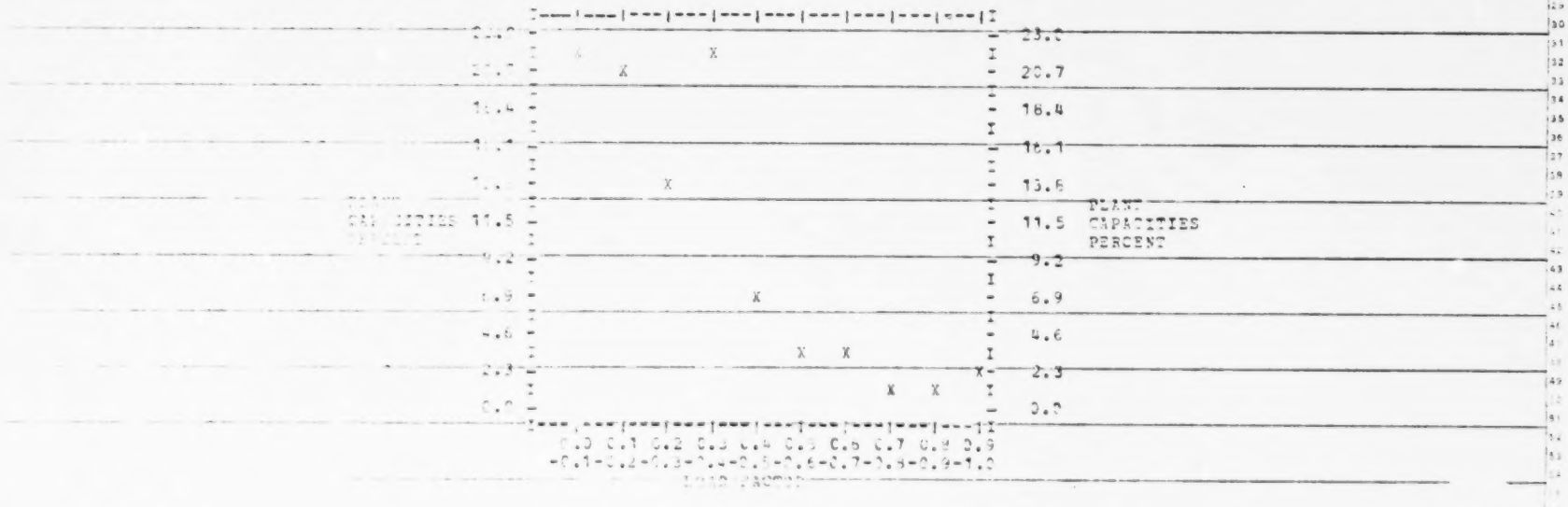
PLANT CAPACITIES (BASE DATA) = 23028. PLANT CAPACITIES (SELECTABLE DATA) = 22062.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
LOAD FACTOR DENSITIES





CC2-7

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MILLION BTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0.-.2	>.2-.3	>.3-.4	>.4-.6	>.6-.8	>.8-1.0	>1.0-1.2	>1.2-1.5
EQUAL	0	8	0	0	0	5	14	2	4	0
1-	10	7	0	0	1	8	143	27	6	13
11-	20	7	0	0	0	6	21	11	4	4
21-	30	4	0	0	0	6	30	9	0	5
31-	40	1	0	0	0	1	7	3	0	0
41-	50	2	0	0	0	3	5	4	2	2
51-	60	2	0	0	0	4	4	5	0	0
61-	70	1	1	1	0	0	2	1	0	5
71-	80	0	0	0	0	0	5	7	1	5
81-	90	0	0	0	0	1	1	1	1	0
91-	100	0	1	0	0	1	2	7	2	2
101-	200	2	0	0	0	2	5	4	1	2
201-	300	0	0	0	0	0	0	2	1	0
301-	400	0	0	0	0	0	3	0	0	0
401-	500	0	0	0	0	0	1	0	0	0
501-	600	0	0	0	0	0	0	0	0	0
601-	700	0	0	0	0	0	0	0	0	0
701-	800	0	0	0	0	0	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	0	0	0	0	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		34	2	1	1	37	243	87	20	38
CUMUL. TOTALS		34	36	37	38	75	318	405	425	463

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
[illegible]	3	2	2	0	3	0	0	43	43
1- 10	13	4	14	9	4	0	0	249	292
11- 20	9	6	11	8	4	0	3	91	383
21- 30	5	8	15	4	6	2	0	91	474
31- 40	3	2	8	1	0	0	2	34	508
41- 50	0	3	11	7	1	0	0	36	546
51- 60	0	4	6	1	1	0	1	28	574
61- 70	0	3	6	3	0	0	1	24	598
71- 80	0	2	1	2	0	0	1	23	621
81- 90	0	3	0	0	0	0	0	7	628
91- 100	3	1	1	0	0	0	0	20	648
101- 200	2	1	6	3	1	0	0	29	677
201- 300	0	3	0	1	0	0	0	5	682
301- 400	0	0	2	1	2	0	0	1	687
401- 500	0	0	0	0	0	0	0	0	687
501- 600	0	0	0	0	0	0	0	0	687
601- 700	0	0	0	0	0	0	0	0	687
701- 800	0	0	0	0	0	0	0	0	687
801- 900	0	0	0	0	0	0	0	0	687
901- 1000	0	0	0	0	0	0	0	0	687
1001- 2000	0	0	0	0	0	0	0	0	687
2001- 3000	0	0	0	0	0	0	0	0	687
3001- 4000	0	0	0	0	0	0	0	0	687
4001- 5000	0	0	0	0	0	0	0	0	687
5001- 6000	0	0	0	0	0	0	0	0	687
6001- 7000	0	0	0	0	0	0	0	0	687
7001- 8000	0	0	0	0	0	0	0	0	687
8001- 9000	0	0	0	0	0	0	0	0	687
9001- 10000	0	0	0	0	0	0	0	0	687
10001-100000	0	0	0	0	0	0	0	0	687
COLUMN TOTALS	38	42	84	40	11	2	7	688	
CUMTOT TOTALS	501	543	627	667	678	680	687		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY RANGE (KLB/HR)	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	7	0	0	0	2	5	1	2	0
1- 10	3	0	0	1	6	130	11	3	2
11- 20	1	0	0	0	0	19	2	2	1
21- 30	1	0	0	0	3	24	3	0	0
31- 40	0	0	0	0	0	6	2	0	0
41- 50	0	0	0	0	1	5	2	1	2
51- 60	0	0	0	0	2	1	1	0	0
61- 70	0	0	0	0	0	2	2	0	0
71- 80	0	0	0	0	0	1	0	1	0
81- 90	1	0	0	0	1	0	1	1	1
91- 100	0	1	0	0	1	2	0	2	1
101- 200	3	0	0	0	1	3	9	0	2
201- 300	0	0	2	0	2	2	3	0	1
301- 400	0	0	0	0	0	3	1	1	1
401- 500	0	0	0	0	0	1	0	0	0
501- 600	0	0	0	0	0	0	0	0	0
601- 700	0	0	0	0	0	1	1	0	0
701- 800	0	0	0	0	0	0	0	0	1
801- 900	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	0	0
1001- 2000	0	0	0	0	0	0	0	0	0
2001- 3000	0	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	16	1	0	1	19	204	38	12	18
CUMUL. TOTALS	16	17	17	18	37	241	279	292	306

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

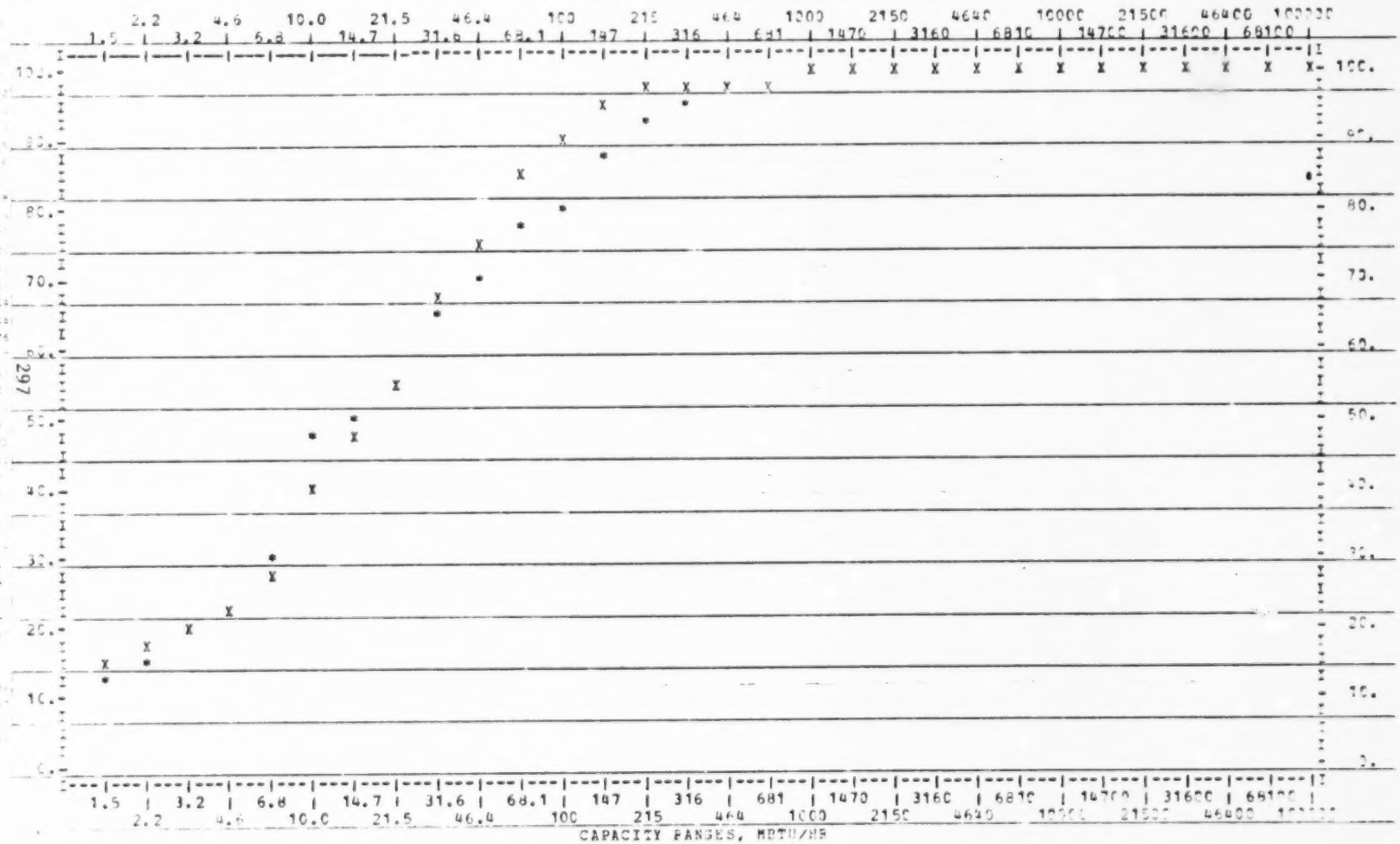
TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	1	1	3	0	1	0	0	23	23
1- 10	11	2	5	5	2	0	0	181	204
11- 20	1	2	5	1	1	0	0	34	238
21- 30	2	1	2	3	0	0	0	39	277
31- 40	5	0	4	0	0	0	0	17	294
41- 50	1	1	1	0	1	0	1	16	310
51- 60	0	1	2	2	1	1	0	11	321
61- 70	0	0	3	1	0	0	0	10	331
71- 80	0	2	0	0	0	0	0	4	335
81- 90	0	1	0	0	0	0	0	6	341
91- 100	1	1	1	1	0	0	0	11	352
101- 200	4	6	9	5	1	0	1	44	396
201- 300	0	1	3	2	0	0	0	14	410
301- 400	0	1	0	1	0	0	0	7	417
401- 500	0	0	1	0	0	0	0	2	419
501- 600	0	0	0	0	0	0	0	0	419
601- 700	0	1	0	0	0	0	0	3	422
701- 800	0	0	0	0	0	0	0	1	423
801- 900	0	0	0	0	0	0	0	0	423
901- 1000	0	0	0	0	0	0	0	0	423
1001- 2000	0	0	0	0	0	0	0	0	423
2001- 3000	0	0	0	0	0	0	0	0	423
3001- 4000	0	0	0	0	0	0	0	0	423
4001- 5000	0	0	0	0	0	0	0	0	423
5001- 6000	0	0	0	0	0	0	0	0	423
6001- 7000	0	0	0	0	0	0	0	0	423
7001- 8000	0	0	0	0	0	0	0	0	423
8001- 9000	0	0	0	0	0	0	0	0	423
9001- 10000	0	0	0	0	0	0	0	0	423
10001- 20000	0	0	0	0	0	0	0	0	423
20001- 30000	0	0	0	0	0	0	0	0	423
30001- 40000	0	0	0	0	0	0	0	0	423
40001- 50000	0	0	0	0	0	0	0	0	423
50001-100000	0	0	0	0	0	0	0	0	423
COLUMN TOTALS	26	21	39	21	7	1	2	423	
CUMUL. TOTALS	332	353	392	413	420	421	423		

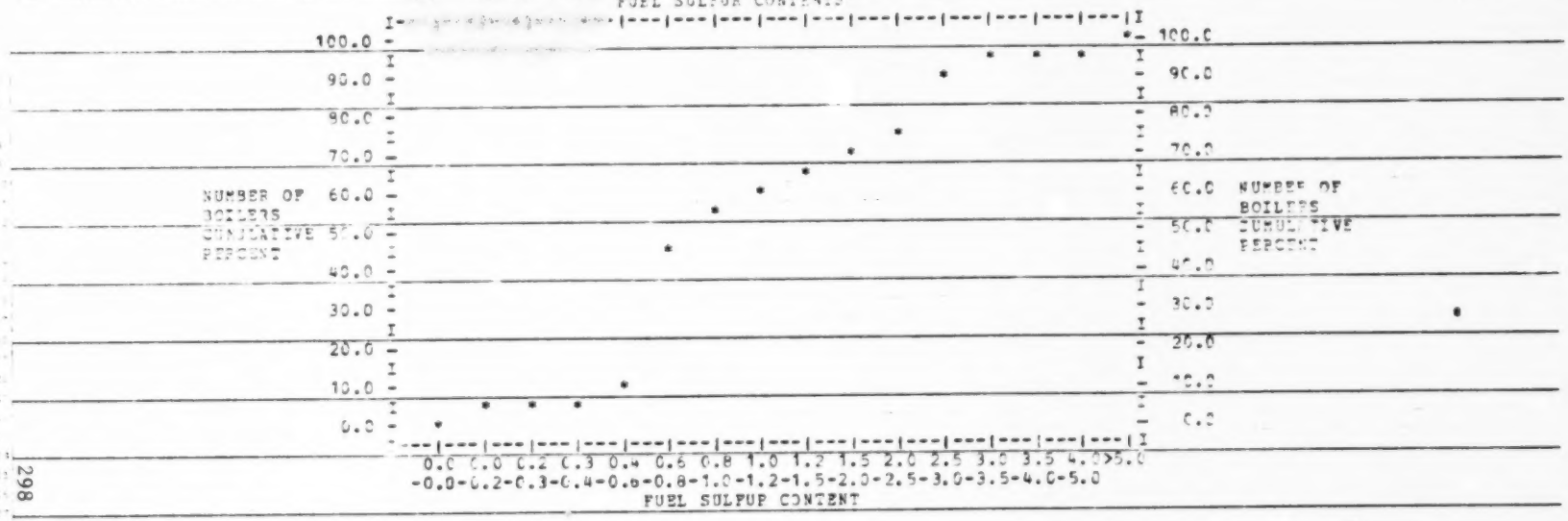
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

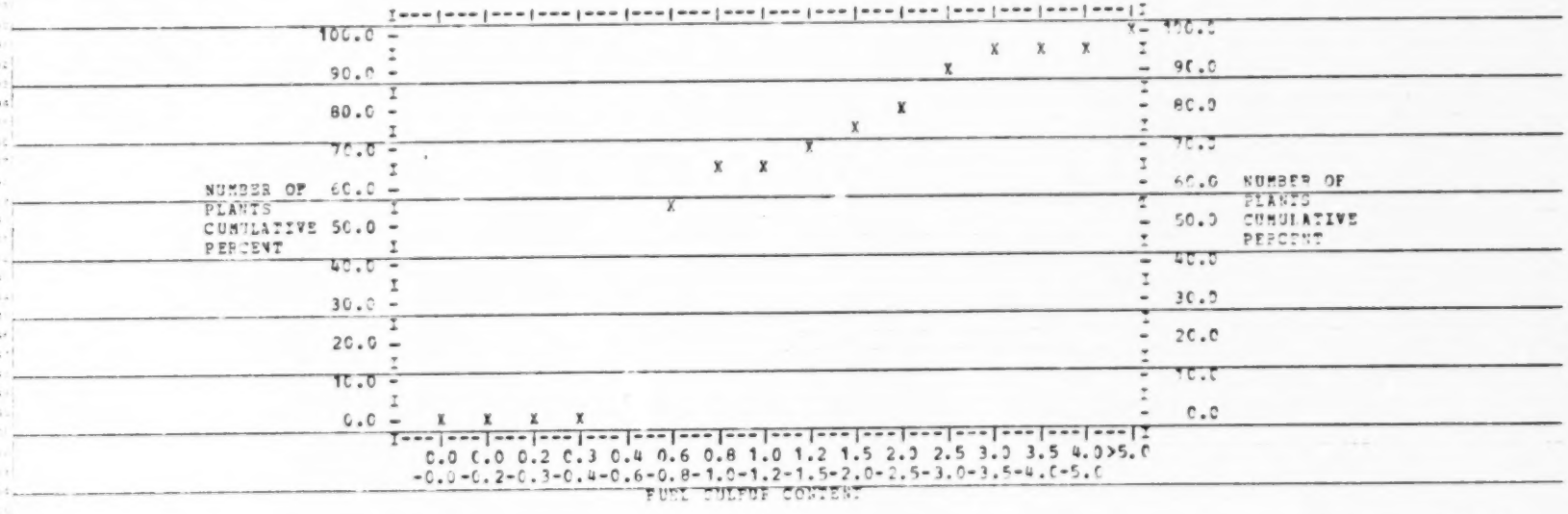
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS

CAPACITY RANGES, MBTU/HR



N DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENTS



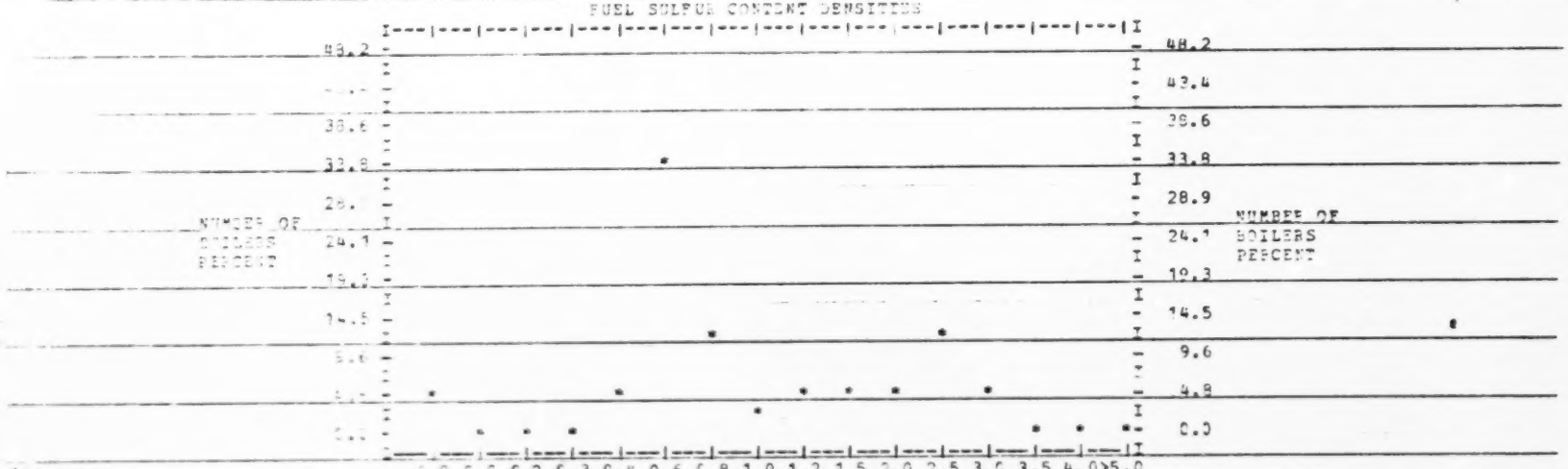


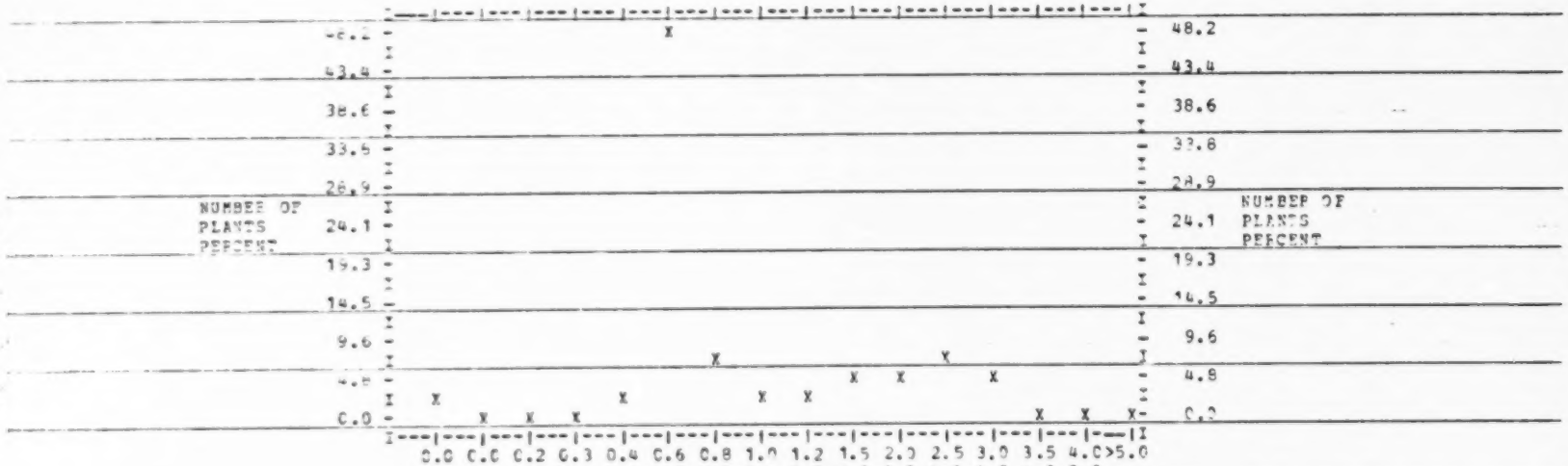
NUMBER OF BOILERS (ALL DATA) = 687
NUMBER OF PLANTS (ALL DATA) = 423

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

ALL COAL-FIRED BOILERS

FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 667

NUMBER OF PLANTS (ALL DATA) = 423

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	44.	0.	0.	2.	22.	861.	63.	32.	33.
11-	20	113.	0.	0.	0.	93.	281.	174.	56.	68.
21-	30	108.	0.	0.	0.	167.	774.	226.	0.	142.
31-	40	40.	0.	0.	0.	40.	246.	320.	0.	0.
41-	50	100.	0.	0.	0.	150.	234.	194.	0.	69.
51-	60	120.	0.	0.	0.	240.	219.	279.	0.	0.
61-	70	62.	63.	63.	0.	0.	126.	70.	0.	312.
71-	80	0.	0.	0.	0.	0.	360.	515.	76.	400.
81-	90	0.	0.	0.	0.	82.	82.	90.	82.	0.
91-	100	0.	100.	0.	0.	99.	187.	693.	200.	193.
101-	200	318.	0.	0.	0.	266.	661.	596.	135.	342.
201-	300	0.	0.	0.	0.	0.	0.	0.	290.	0.
301-	400	0.	0.	0.	0.	0.	983.	0.	0.	0.
401-	500	0.	0.	0.	0.	0.	490.	0.	0.	0.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	0.	0.	0.	0.	0.	0.	0.	0.	735.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		905	163.	63.	2.	1150.	5424.	3217.	791.	2314.
CUMUL. TOTALS		905	1068.	1131.	1133.	2292.	7716.	10933.	11724.	14038.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	26.	22.	56.	61.	4.	0.	0.	1226.	1226.
11-	20	152.	94.	171.	129.	13.	0.	42.	1386.	2612.
21-	30	130.	206.	443.	109.	0.	56.	0.	2261.	4873.
31-	40	105.	69.	289.	37.	0.	0.	64.	1210.	6183.
41-	50	0.	150.	543.	317.	45.	0.	0.	1822.	8005.
51-	60	0.	216.	338.	60.	60.	0.	53.	1562.	9587.
61-	70	0.	201.	385.	132.	0.	0.	64.	1538.	11125.
71-	80	0.	147.	80.	154.	0.	0.	0.	1732.	12857.
81-	90	0.	256.	0.	0.	0.	0.	0.	582.	13440.
91-	100	296.	100.	94.	0.	0.	0.	0.	1962.	15411.
101-	200	208.	153.	816.	366.	108.	0.	0.	3969.	19380.
201-	300	0.	680.	0.	300.	0.	0.	0.	1190.	20570.
301-	400	0.	0.	0.	330.	0.	0.	0.	1313.	21883.
401-	500	0.	0.	0.	0.	0.	0.	0.	410.	22293.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	22293.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	22293.
701-	800	0.	0.	0.	0.	0.	0.	0.	735.	23028.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	23028.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
COLUMN TOTALS		917.	2294.	3215.	2055.	230.	56.	223.	23028.	
CUMUL. TOTALS		14955.	17249.	20464.	22519.	22749.	22805.	23028.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	EQUAL 0.	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
0.001- 1	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	12.	0.	0.	2.	8.	803.	34.	12.	12.
11- 20	17.	0.	0.	0.	0.	237.	31.	34.	15.
21- 30	29.	0.	0.	0.	72.	630.	82.	0.	0.
31- 40	0.	0.	0.	0.	0.	203.	72.	0.	0.
41- 50	0.	0.	0.	0.	48.	234.	49.	42.	46.
51- 60	0.	0.	0.	0.	114.	51.	51.	0.	0.
61- 70	0.	0.	0.	0.	0.	124.	127.	0.	132.
71- 80	0.	0.	0.	0.	0.	72.	0.	76.	0.
81- 90	92.	0.	0.	0.	90.	0.	90.	82.	83.
91- 100	0.	100.	0.	0.	93.	199.	0.	200.	91.
101- 200	490.	0.	0.	0.	150.	445.	1356.	0.	348.
201- 300	0.	0.	0.	0.	506.	435.	827.	0.	260.
301- 400	0.	0.	0.	0.	0.	1054.	0.	346.	822.
401- 500	0.	0.	0.	0.	0.	410.	0.	0.	0.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	630.	649.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	735.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001- 60000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	631.	100.	0.	2.	1247.	5529.	3408.	791.	2198.
CUMUL. TOTALS	631.	731.	731.	733.	1980.	7509.	10917.	11548.	13746.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

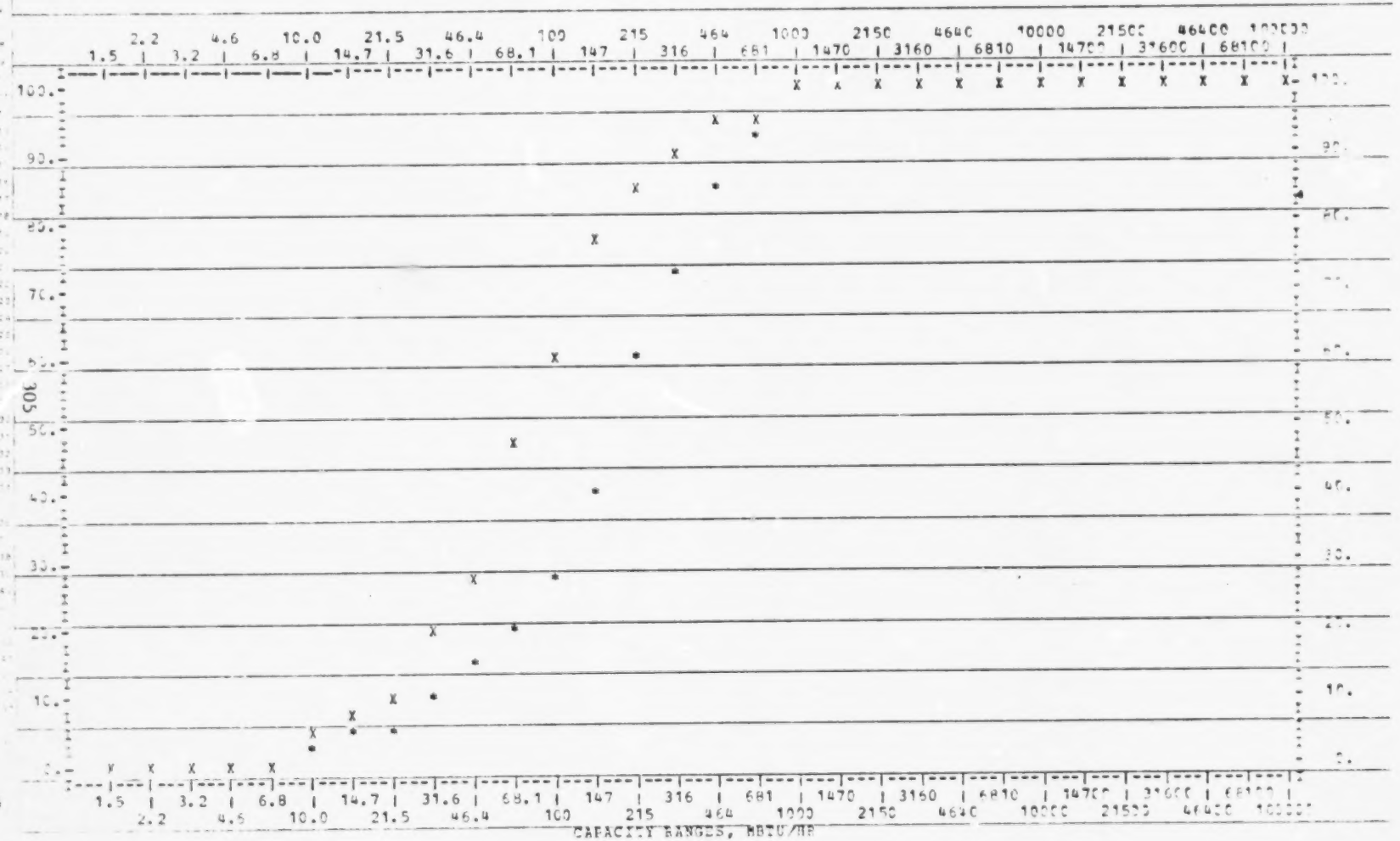
TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	26.	2.	22.	31.	4.	0.	0.	966.	966.
11-	20	17.	32.	83.	13.	13.	0.	0.	498.	1466.
21-	30	48.	27.	54.	90.	0.	0.	0.	1032.	2496.
31-	40	177.	0.	141.	0.	0.	0.	0.	593.	3089.
41-	50	48.	42.	45.	0.	45.	0.	42.	721.	3810.
51-	60	0.	60.	106.	114.	60.	56.	0.	612.	4422.
61-	70	0.	0.	193.	66.	0.	0.	0.	644.	5066.
71-	80	0.	147.	0.	0.	0.	0.	0.	295.	5361.
81-	90	0.	90.	0.	0.	0.	0.	0.	524.	5885.
91-	100	96.	94.	100.	94.	0.	0.	0.	1075.	6960.
101-	200	524.	958.	1304.	665.	108.	0.	181.	6529.	13489.
201-	300	0.	201.	671.	520.	0.	0.	0.	3440.	16929.
301-	400	0.	350.	0.	330.	0.	0.	0.	2479.	19408.
401-	500	0.	0.	496.	0.	0.	0.	0.	906.	20314.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	20314.
601-	700	0.	700.	0.	0.	0.	0.	0.	1979.	22293.
701-	800	0.	0.	0.	0.	0.	0.	0.	735.	23028.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	23028.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	23028.
COLUMN TOTALS		936.	4703.	3215.	1929.	230.	56.	223.	23028.	
CUMUL. TOTALS		14672.	17375.	20590.	22519.	22749.	22805.	23028.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
*--PLANTS

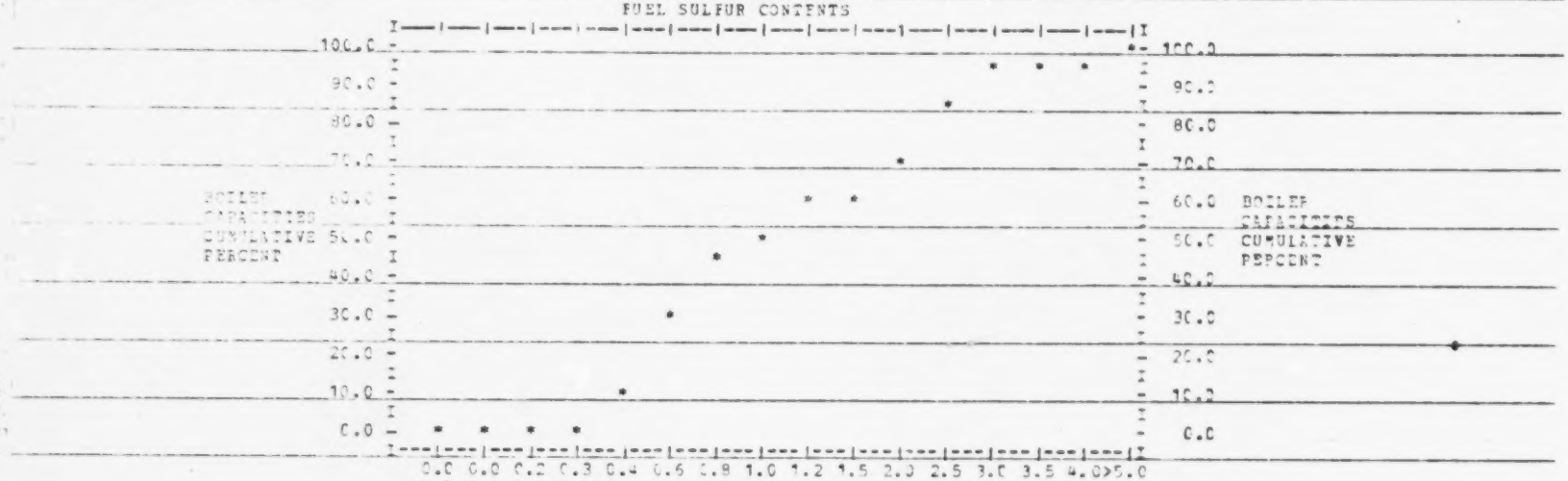
CAPACITY RANGES, MBTU/HR

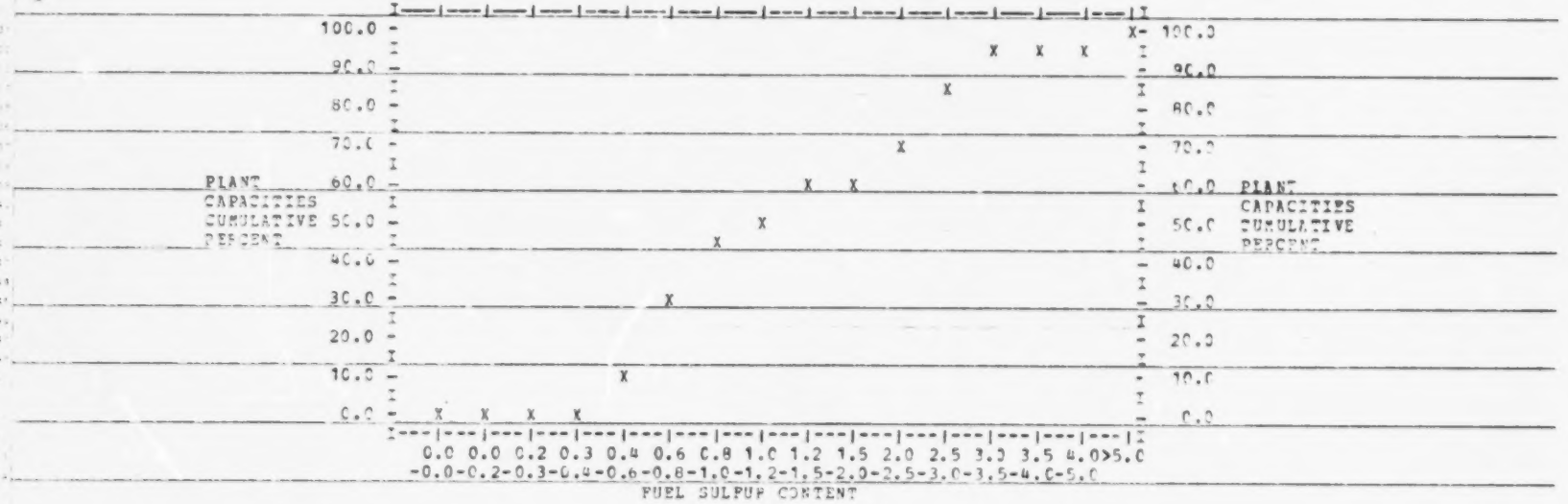


CAPACITY RANGES, MBTU/HR

BOILER CAPACITIES (ALL DATA) = 23028.
PLANT CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENTS





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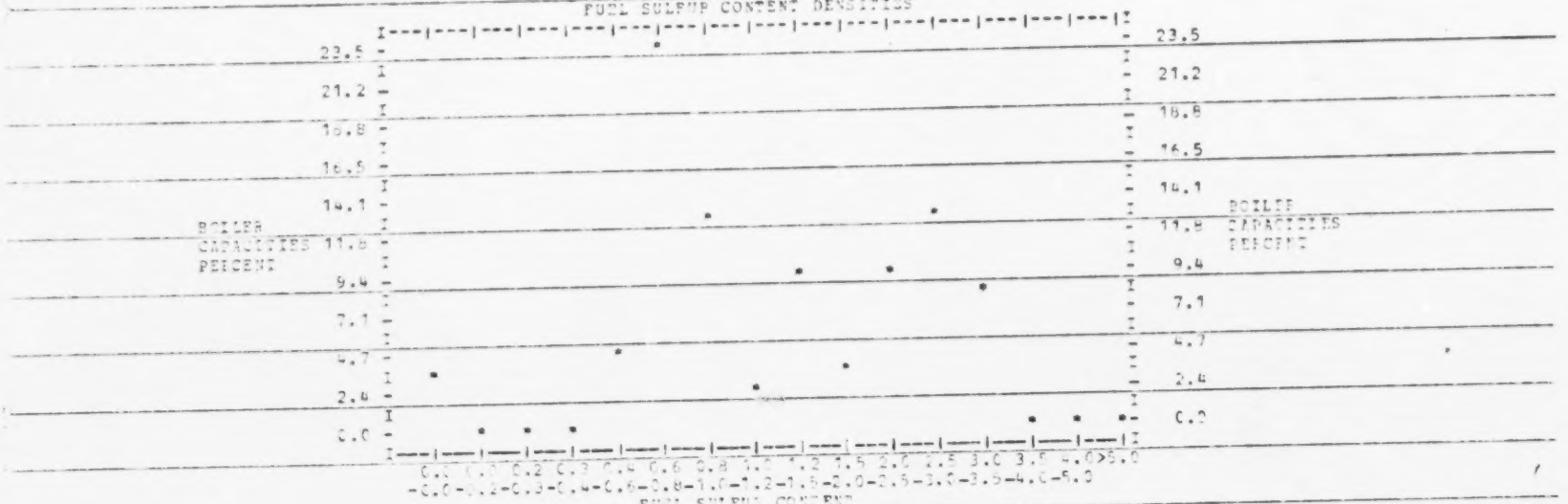
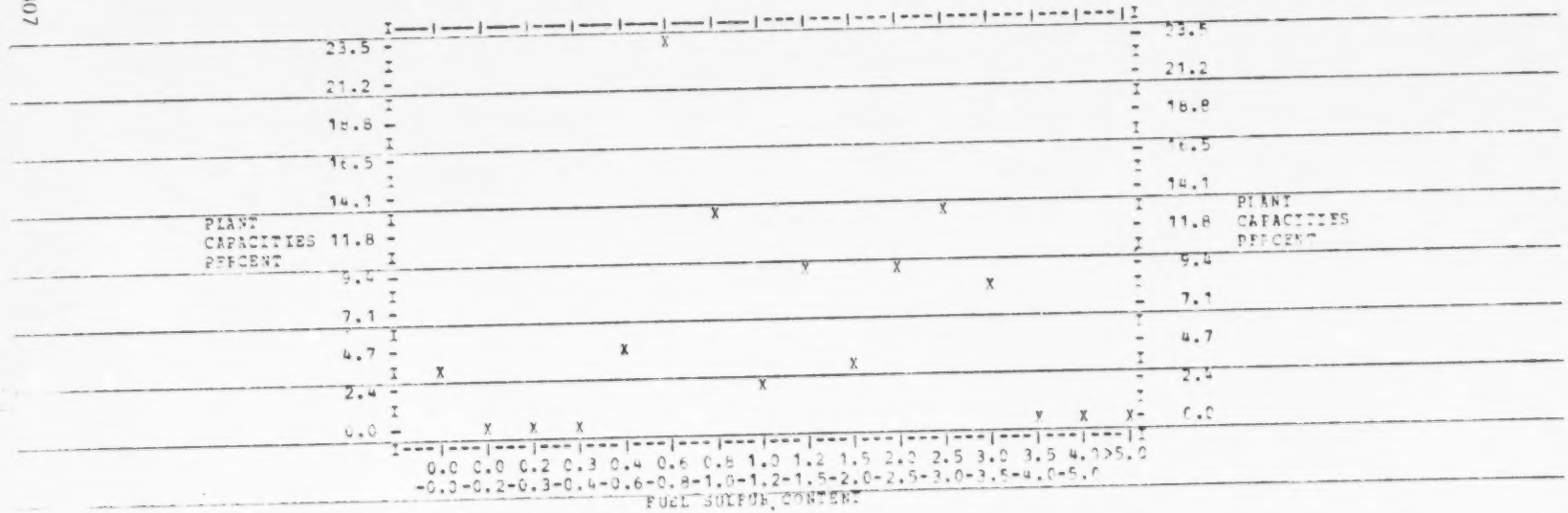
BOILER CAPACITIES (ALL DATA) = 23028.
PLANT CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 23028.
PLANT CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	154.	729.	27.	115.	17.
11- 20	0.	0.	0.	0.	152.	85.	235.	177.	115.
21- 30	0.	0.	0.	0.	75.	364.	271.	0.	416.
31- 40	0.	0.	0.	0.	48.	146.	453.	0.	0.
41- 50	0.	0.	0.	0.	150.	51.	78.	0.	46.
51- 60	0.	0.	0.	0.	176.	65.	241.	0.	0.
61- 70	0.	5.	21.	0.	0.	26.	70.	0.	342.
71- 80	0.	0.	0.	0.	0.	118.	358.	44.	630.
81- 90	0.	0.	0.	0.	7.	105.	200.	0.	0.
91- 100	0.	75.	0.	0.	66.	105.	788.	607.	172.
101- 200	0.	0.	0.	0.	53.	312.	732.	173.	1050.
201- 300	0.	0.	0.	0.	0.	0.	0.	267.	0.
301- 400	0.	0.	0.	0.	0.	423.	0.	0.	0.
401- 500	0.	0.	0.	0.	0.	456.	0.	0.	0.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	1000.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	80.	21.	0.	879.	2986.	3484.	1383.	3788.
CUMUL. TOTALS	0.	80.	101.	102.	981.	3967.	7451.	8834.	12622.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	611.	183.	852.	1170.	1229.	0.	0.	5088.	5088.
11-	20	234.	379.	736.	711.	74.	0.	281.	3178.	8266.
21-	30	231.	822.	1105.	532.	0.	70.	0.	3886.	12152.
31-	40	395.	116.	1247.	466.	0.	0.	247.	3140.	15291.
41-	50	0.	514.	2269.	1333.	440.	0.	0.	4878.	20169.
51-	60	0.	724.	895.	320.	133.	0.	200.	2753.	22922.
61-	70	0.	666.	1114.	775.	0.	0.	241.	3260.	26182.
71-	80	0.	384.	225.	38.	0.	0.	0.	1826.	28008.
81-	90	0.	923.	0.	0.	0.	0.	0.	1236.	29244.
91-	100	200.	230.	271.	0.	0.	0.	0.	2634.	31778.
101-	200	119.	385.	2360.	1750.	615.	0.	0.	7548.	39326.
201-	300	0.	2748.	0.	244.	0.	0.	0.	3260.	42586.
301-	400	0.	0.	0.	682.	0.	0.	0.	1104.	43691.
401-	500	0.	0.	0.	0.	0.	0.	0.	456.	44147.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	44147.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	44147.
701-	800	0.	0.	0.	0.	0.	0.	0.	1000.	45147.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	45147.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
COLUMN TOTALS		1790.	8097.	11088.	8019.	2492.	70.	969.	45147.	
CUMUL. TOTALS		1790.	9887.	20975.	28994.	31486.	31556.	32525.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	144.	241.	1.	35.	0.
1-	10	0.	0.	0.	0.	2.	176.	13.	34.	6.
11-	20	0.	0.	0.	0.	0.	38.	30.	108.	1.
21-	30	0.	0.	0.	0.	54.	253.	96.	0.	0.
31-	40	0.	0.	0.	0.	0.	312.	69.	0.	0.
41-	50	0.	0.	0.	0.	90.	90.	85.	115.	175.
51-	60	0.	0.	0.	0.	84.	11.	147.	0.	0.
61-	70	0.	0.	0.	0.	0.	26.	127.	0.	82.
71-	80	0.	0.	0.	0.	0.	24.	0.	44.	0.
81-	90	0.	0.	0.	0.	24.	0.	200.	0.	331.
91-	100	0.	75.	0.	0.	66.	134.	0.	607.	146.
101-	200	0.	0.	0.	0.	150.	245.	1390.	0.	196.
201-	300	0.	0.	0.	0.	228.	190.	456.	0.	1040.
301-	400	0.	0.	0.	0.	0.	615.	0.	440.	630.
401-	500	0.	0.	0.	0.	0.	456.	0.	0.	0.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	142.	1072.	0.	0.
701-	800	0.	0.	0.	0.	0.	0.	0.	0.	1000.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		0.	75.	0.	0.	842.	2994.	3686.	1383.	3606.
CUMUL. TOTALS		0.	75.	75.	75.	917.	3911.	7597.	8981.	12586.

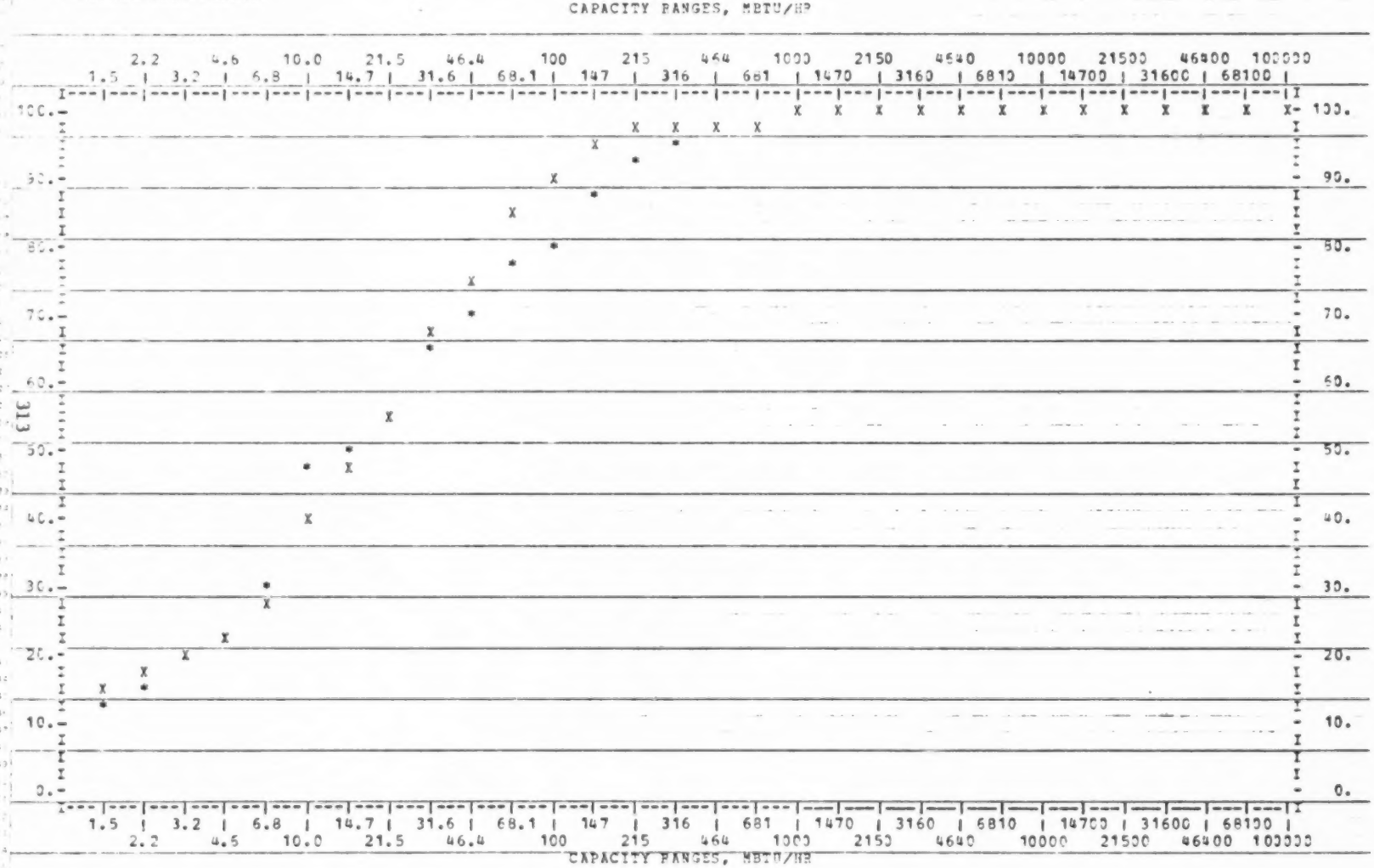
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	1.	5.	534.	0.	714.	0.	0.	1715.	1715.
1-	10	406.	3.	507.	435.	363.	0.	0.	1975.	3690.
11-	20	27.	185.	256.	65.	74.	0.	0.	788.	4477.
21-	30	183.	250.	168.	897.	0.	0.	0.	1901.	6379.
31-	40	426.	0.	980.	0.	0.	0.	0.	1786.	8165.
41-	50	144.	268.	130.	0.	446.	0.	281.	1844.	10010.
51-	60	0.	343.	534.	304.	133.	70.	0.	1876.	11885.
61-	70	0.	0.	638.	224.	0.	0.	0.	1096.	12982.
71-	80	0.	364.	0.	0.	0.	0.	0.	452.	13434.
81-	90	0.	594.	0.	0.	0.	0.	0.	1149.	14583.
91-	100	1.	184.	375.	310.	0.	0.	0.	1897.	16480.
101-	200	396.	2533.	4051.	3689.	615.	0.	688.	13952.	30432.
201-	300	0.	0.	1586.	664.	0.	0.	0.	4831.	35263.
301-	400	0.	275.	0.	682.	0.	0.	0.	2642.	37905.
401-	500	0.	0.	1598.	0.	0.	0.	0.	2054.	39959.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	39959.
601-	700	0.	2974.	0.	0.	0.	0.	0.	4188.	44147.
701-	800	0.	0.	0.	0.	0.	0.	0.	1000.	45147.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	45147.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	45147.
COLUMN TOTALS		1586.	8683.	11444.	7469.	2340.	70.	969.	45147.	
CUMUL. TOTALS		14172.	22855.	34299.	41768.	44107.	44178.	45147.		

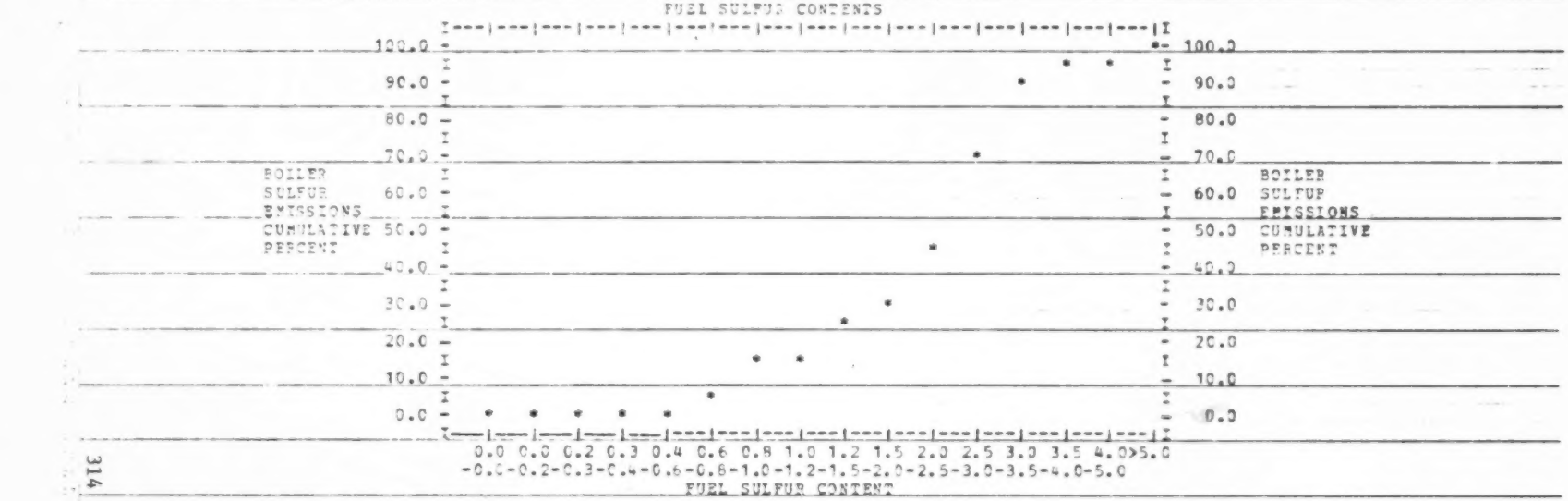
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

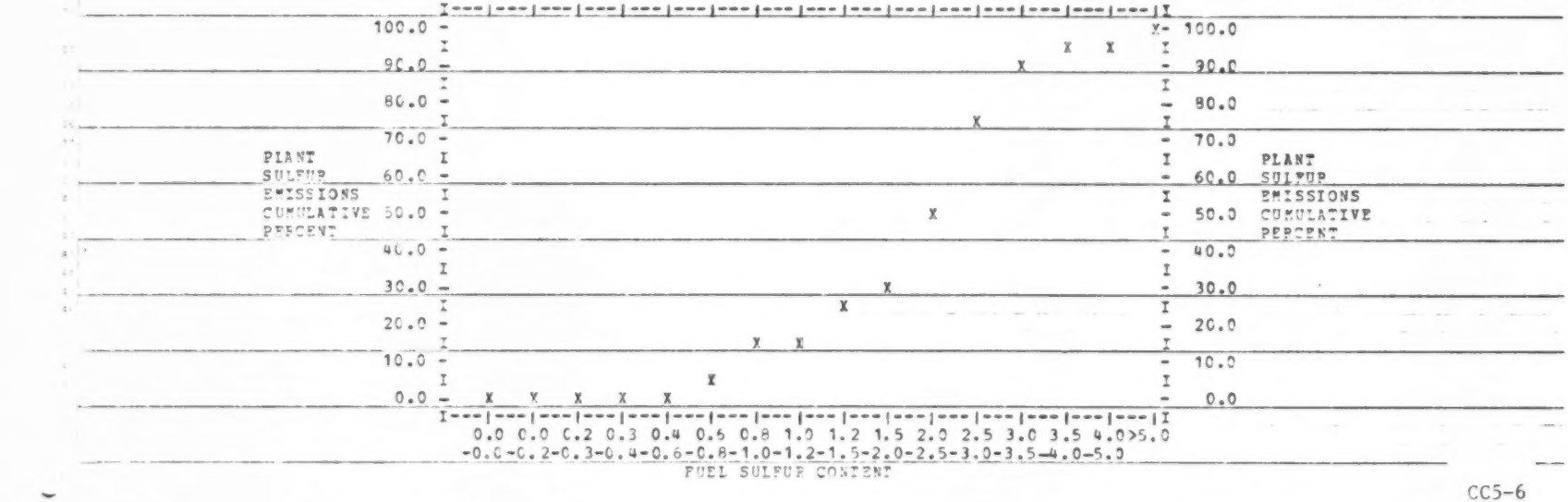
X--INDIVIDUAL BOILERS
*--INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 697
NUMBER OF PLANTS (ALL DATA) = 423

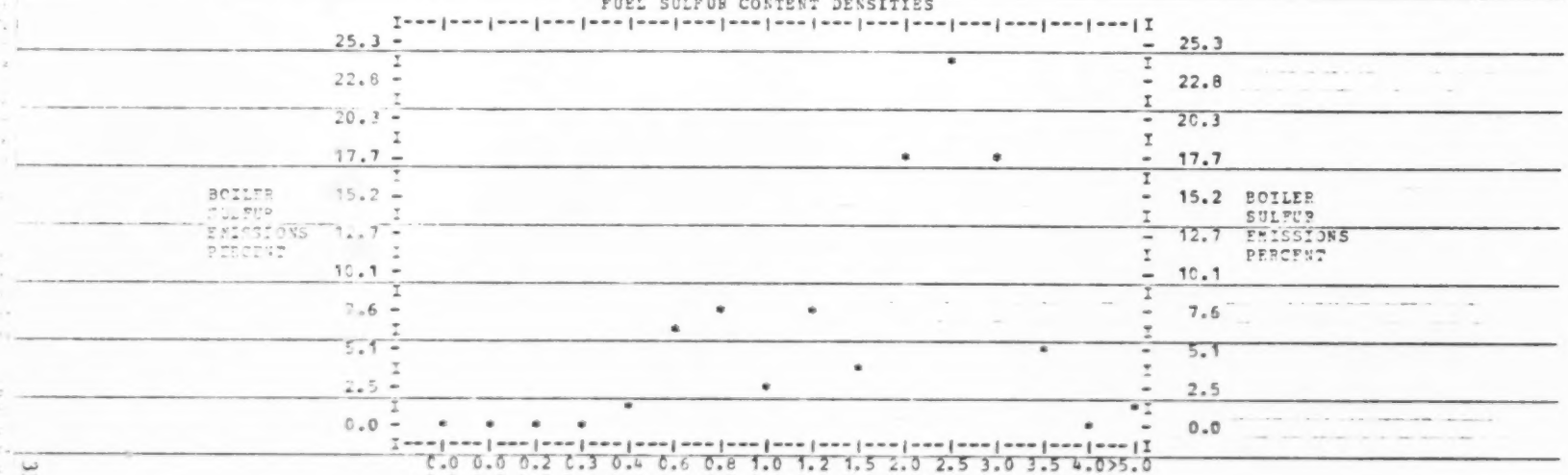
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS

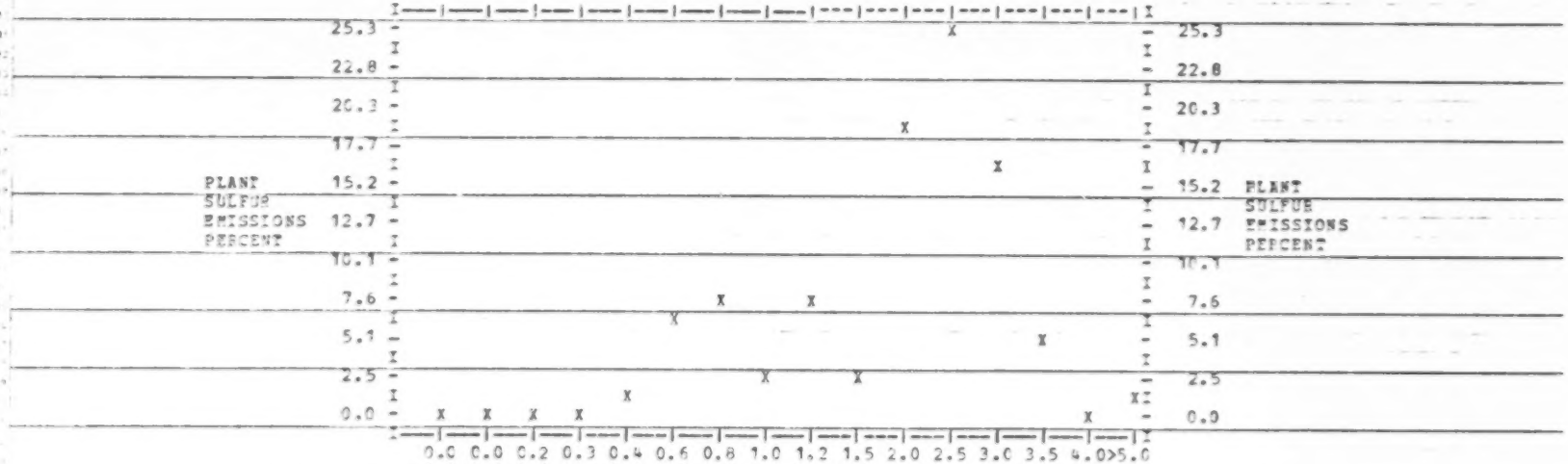




NUMBER OF BOILERS (ALL DATA) = 687

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	13.	0.	0.	0.	435.	1999.	75.	201.	29.
11-	20	0.	0.	0.	0.	676.	330.	892.	416.	186.
21-	30	0.	0.	0.	0.	307.	1275.	717.	0.	762.
31-	40	0.	0.	0.	0.	200.	534.	1126.	0.	0.
41-	50	0.	0.	0.	0.	680.	192.	231.	0.	86.
51-	60	0.	0.	0.	0.	768.	231.	740.	0.	0.
61-	70	0.	207.	182.	0.	0.	98.	196.	0.	630.
71-	80	0.	0.	0.	0.	0.	837.	1043.	88.	1161.
81-	90	0.	0.	0.	0.	31.	378.	400.	1.	0.
91-	100	0.	850.	0.	0.	329.	375.	2140.	1383.	345.
101-	200	0.	0.	0.	0.	264.	1101.	2167.	377.	2168.
201-	300	0.	0.	0.	0.	0.	0.	0.	583.	0.
301-	400	0.	0.	0.	0.	0.	1549.	0.	0.	0.
401-	500	0.	0.	0.	0.	0.	1425.	0.	0.	0.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	0.	0.	0.	0.	0.	0.	0.	0.	2001.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		13.	1057.	182.	0.	3690.	10324.	9527.	3048.	7368.
CUMUL. TOTALS		13.	1070.	1252.	1252.	4942.	15267.	24794.	27842.	35210.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, BTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY (BTU'S/HR)	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
TOTAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	930.	176.	1199.	835.	708.	0.	0.	6224.	6224.
11- 20	236.	478.	683.	551.	56.	0.	122.	4427.	10652.
21- 30	395.	790.	923.	415.	0.	41.	0.	5584.	16236.
31- 40	579.	117.	1147.	376.	0.	0.	99.	4172.	20408.
41- 50	0.	494.	1871.	1034.	265.	0.	0.	4852.	25260.
51- 60	0.	790.	677.	240.	82.	0.	80.	3608.	28868.
61- 70	0.	666.	911.	582.	0.	0.	95.	3568.	32437.
71- 80	0.	457.	173.	26.	0.	0.	0.	3784.	36221.
81- 90	0.	956.	0.	0.	0.	0.	0.	1761.	37981.
91- 100	240.	220.	221.	0.	0.	0.	0.	6102.	44083.
101- 200	135.	436.	1946.	1162.	442.	0.	0.	10202.	54285.
201- 300	0.	2305.	0.	173.	0.	0.	0.	3061.	57346.
301- 400	0.	0.	0.	519.	0.	0.	0.	2068.	59414.
401- 500	0.	0.	0.	0.	0.	0.	0.	1425.	60839.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	60839.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	60839.
701- 800	0.	0.	0.	0.	0.	0.	0.	2001.	62839.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	62839.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
COLUMN TOTALS	7817.	7357.	9746.	5913.	1581.	41.	397.	62839.	
CUMTOT. TOTALS	45161.	52518.	62407.	60820.	62402.	62442.	62839.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, QBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY (MBTU/HR)		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		0.	>0.	>.2	>.3	>.4	>.6	>.8	>1.0	>1.2
		0.	-.2	-.3	-.4	-.6	-.8	-1.0	-1.2	-1.5
[illegible]	0	1.	0.	0.	0.	412.	790.	3.	48.	0.
[illegible]	[illegible]	12.	0.	0.	0.	6.	682.	36.	26.	12.
[illegible]	[illegible]	0.	0.	0.	0.	0.	143.	81.	250.	3.
[illegible]	30	0.	0.	0.	0.	182.	951.	241.	0.	0.
[illegible]	40	0.	0.	0.	0.	0.	640.	188.	0.	0.
-1-	50	0.	0.	0.	0.	420.	243.	243.	298.	389.
[illegible]	[illegible]	0.	0.	0.	0.	333.	39.	40.	0.	0.
[illegible]	70	0.	0.	0.	0.	0.	38.	365.	0.	128.
71-	80	0.	0.	0.	0.	0.	93.	0.	89.	0.
81-	90	0.	0.	0.	0.	125.	0.	400.	1.	617.
[illegible]	[illegible]	0.	850.	[illegible]	0.	329.	535.	0.	1383.	291.
[illegible]	250	0.	0.	0.	0.	840.	1319.	3485.	0.	329.
[illegible]	300	0.	0.	0.	0.	1032.	670.	1257.	0.	2360.
301-	400	0.	0.	0.	0.	0.	2798.	0.	960.	1161.
401-	500	0.	0.	0.	0.	0.	1425.	0.	0.	0.
501-	600	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	700	0.	0.	0.	0.	0.	427.	3335.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	2001.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	0.
[illegible]	[illegible]	13.	850.	0.	0.	3518.	10358.	10071.	3048.	7004.
[illegible]	[illegible]	13.	863.	863.	863.	4382.	14739.	24811.	27859.	34863.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

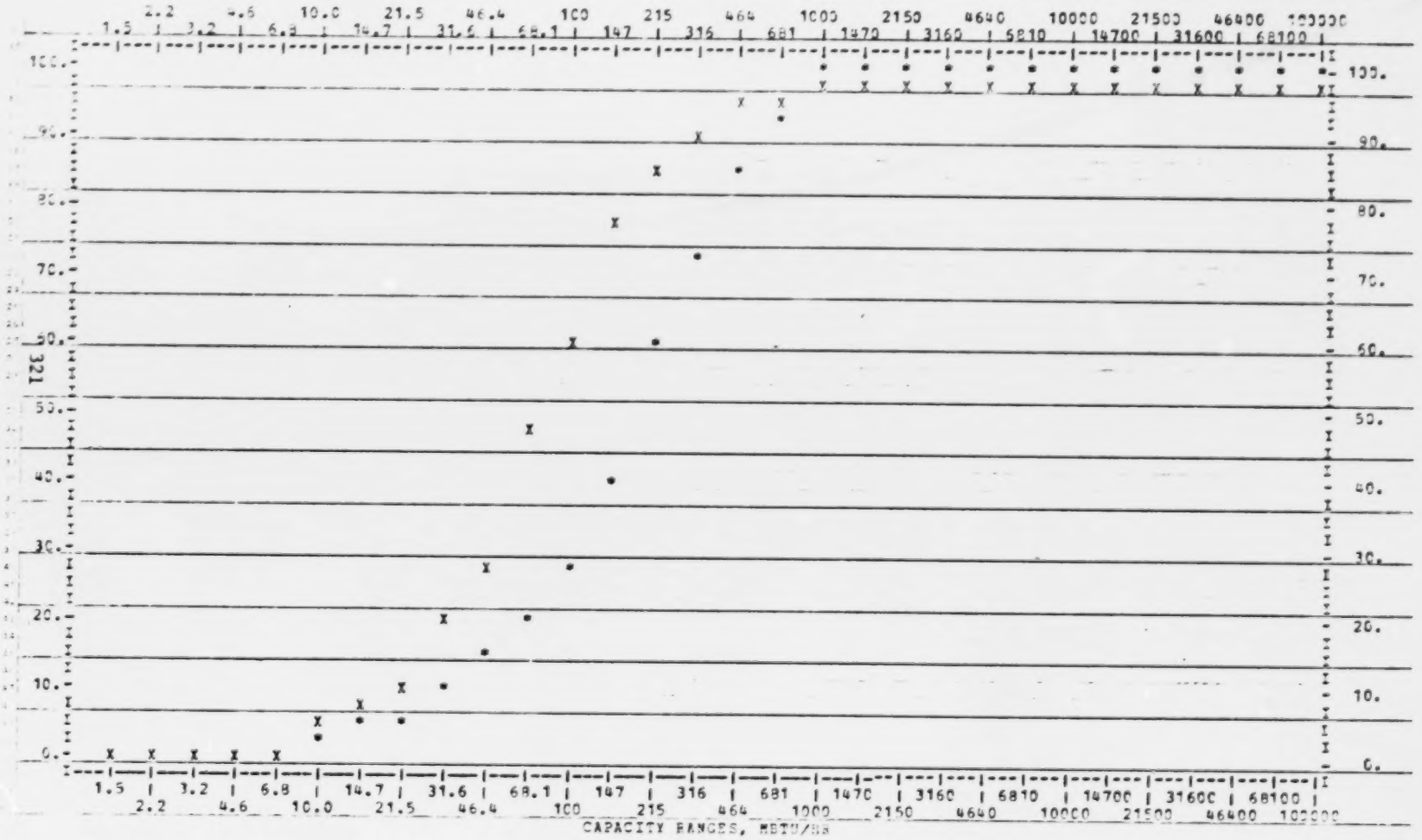
PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY GBTU'S/YR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
[illegible] 0	0.	[illegible]	434.	0.	424.	0.	0.	2118.	2118.
[illegible] 10	362.	4.	925.	310.	209.	0.	0.	2583.	4701.
[illegible]	38.	178.	214.	48.	56.	0.	0.	1009.	5709.
[illegible]	274.	240.	136.	645.	0.	0.	0.	2669.	8378.
[illegible]	618.	0.	809.	0.	0.	0.	0.	2356.	10734.
[illegible]	158.	300.	101.	0.	265.	0.	122.	2454.	13188.
[illegible]	0.	302.	533.	378.	82.	41.	0.	2147.	15336.
[illegible] 70	0.	0.	533.	168.	0.	0.	0.	1287.	16622.
[illegible] 80	0.	457.	0.	0.	0.	0.	0.	[illegible]	[illegible]
[illegible]	0.	[illegible]	0.	0.	0.	0.	0.	1764.	[illegible]
[illegible]	1.	[illegible]	313.	234.	0.	0.	0.	4135.	23204.
101- 200	513.	2700.	3292.	2737.	442.	0.	275.	15771.	38975.
201- 300	0.	686.	1302.	461.	0.	0.	0.	7554.	46529.
301- 400	0.	242.	0.	519.	0.	0.	0.	5180.	51709.
401- 500	0.	0.	1327.	0.	0.	0.	0.	2752.	54461.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	54461.
[illegible]	0.	2617.	0.	0.	0.	0.	0.	6378.	60839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	2001.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible] 30000	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
[illegible]	0.	0.	0.	0.	0.	0.	0.	0.	62839.
COLUMN TOTALS	1966.	8578.	10018.	5499.	1477.	41.	397.	62839.	
CUMUL. TOTALS	36829.	45407.	55425.	60924.	62402.	62442.	62839.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

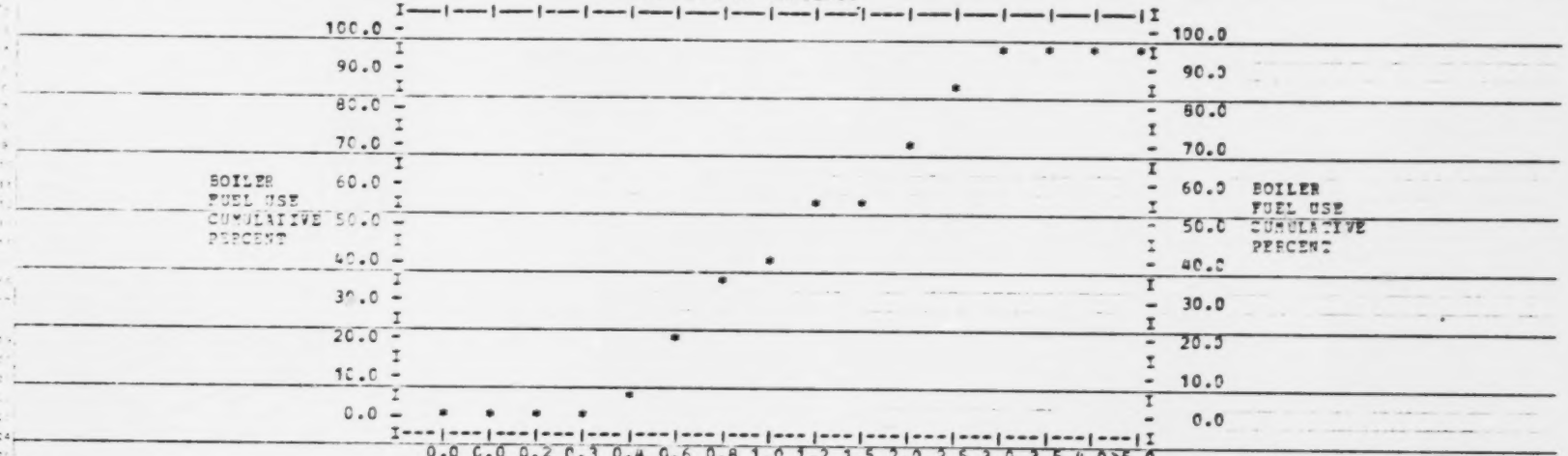
X--INDIVIDUAL BOILERS
•--PLANTS

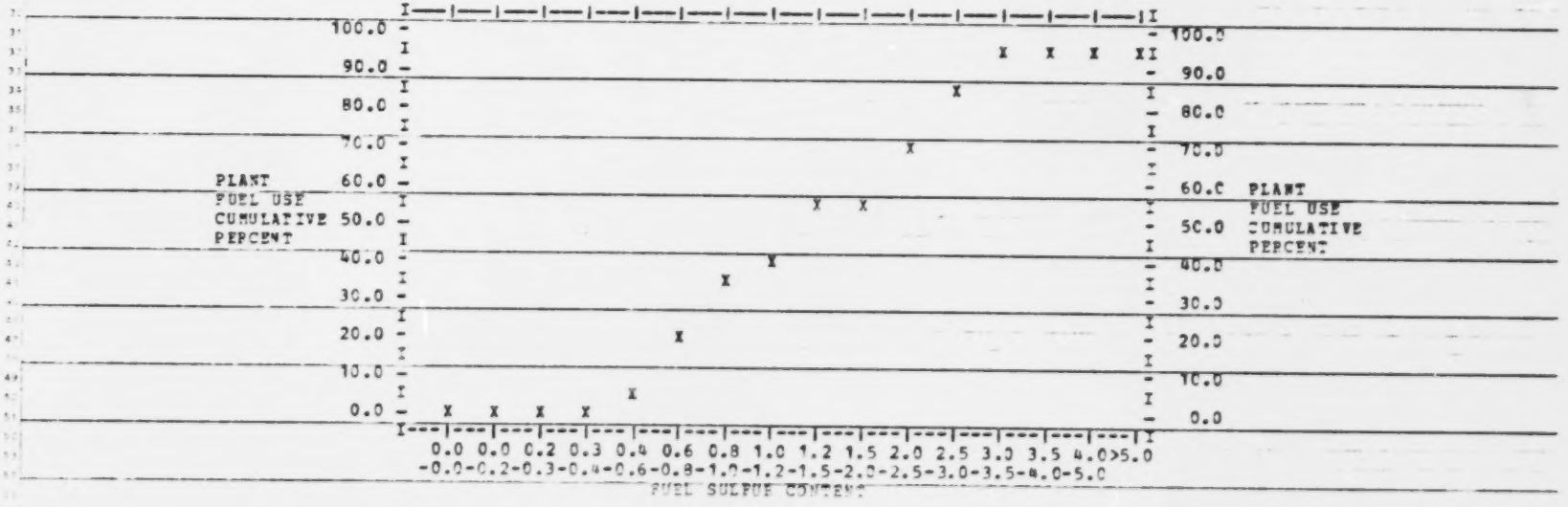
CAPACITY RANGES, MBTU/HR



BOILER CAPACITIES (ALL DATA) = 23028.
PLANT CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENTS

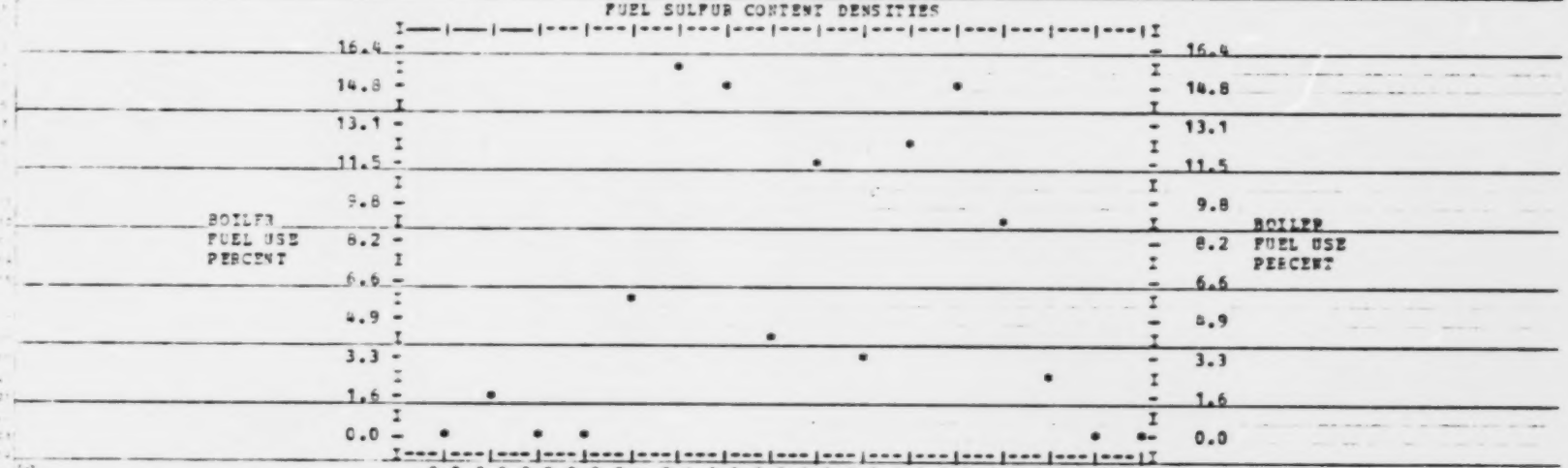


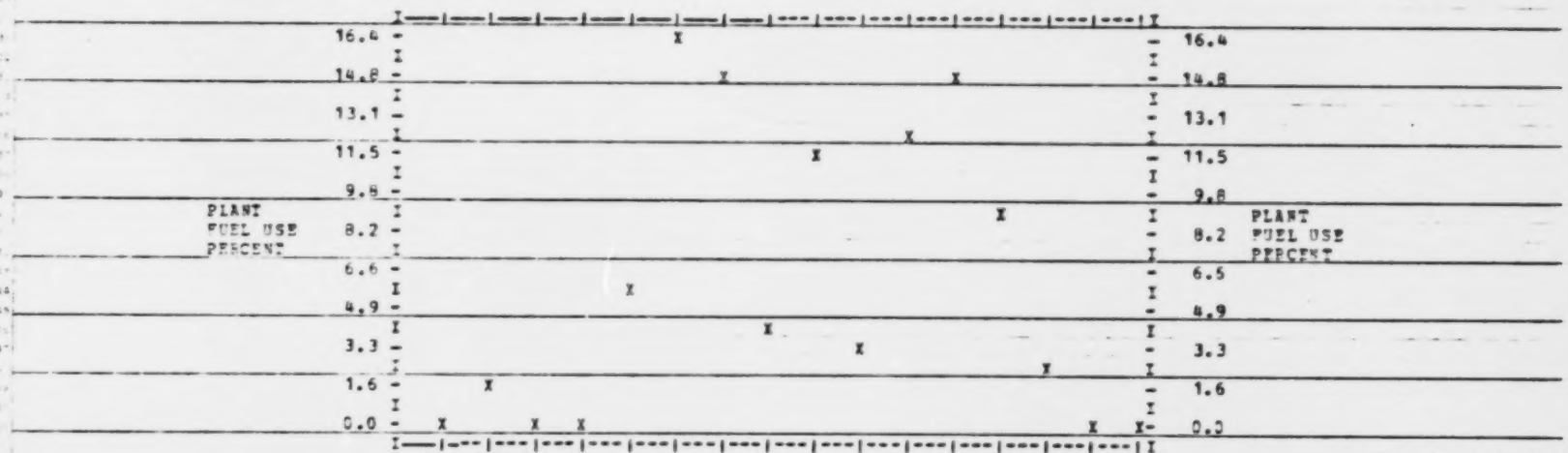


CC6-6

BOILER CAPACITIES (ALL DATA) = 23028.
PLANT CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL COAL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





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BOILER CAPACITIES (ALL DATA) = 23028.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	EQUAL ZERO	STACK HEIGHTS IN FEET 1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201-250	251-300	301-350	351-400
EQUAL 0	18	1	3	7	2	2	1	1	1	1	0	0	0	0	0
1- 10	58	1	15	19	41	42	16	8	5	1	2	1	0	0	0
11- 20	15	0	1	2	2	7	9	4	5	2	0	0	0	0	0
21- 30	8	0	2	1	1	3	6	6	7	4	0	2	0	0	0
31- 40	10	0	0	2	1	0	0	3	3	3	3	0	0	0	0
41- 50	4	1	0	0	0	2	1	1	7	5	0	0	0	0	0
51- 60	2	0	0	0	0	0	0	1	2	2	1	1	0	0	0
61- 70	3	0	0	0	2	0	1	2	2	0	1	0	0	0	0
71- 80	2	1	1	0	0	2	0	1	0	0	2	0	0	0	0
81- 90	2	0	0	0	1	2	0	0	1	0	0	0	0	0	0
91- 100	9	0	6	0	2	1	1	0	2	0	1	2	0	0	0
101- 200	9	0	4	2	3	3	1	6	4	5	4	6	1	0	0
201- 300	1	0	0	0	0	0	0	1	2	5	0	2	0	0	0
301- 400	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0
401- 500	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601- 700	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COUNTRY TOTALS	136	4	28	34	60	64	40	34	41	29	16	15	3	0	0
CUMUL. TOTALS	0	4	30	64	124	188	228	262	303	331	347	365	368	368	368

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL COAL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET: 401-450	451-500	501-550	551-600	601-650	651-700	701-750	751-800	801-850	851-900	901-950	951-1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	211	211
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	45	256
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	45	301
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	25	326
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	21	347
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	11	358
61- 70	0	0	0	0	0	0	0	0	0	0	0	0	0	8	366
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	8	374
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	6	380
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	17	397
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	49	446
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	12	458
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	4	462
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	3	465
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	465
601- 700	0	0	0	0	0	0	0	0	0	0	0	0	0	1	466
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	1	467
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	467
COLUMN TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	506	467
CUMUL. TOTALS	368	368	368	368	368	368	368	368	368	368	368	368	368		

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL COAL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	1.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.00	1.06	1.46	2.55	1.14	1.00	0.0	1.00	0.0
11-	20	2.00	1.05	31.50	2.50	1.00	2.00	0.0	0.0	3.00
21-	30	4.00	1.20	1.57	4.40	2.00	1.00	0.0	1.00	0.0
31-	40	0.0	2.00	1.00	1.00	6.00	1.00	0.0	0.0	0.0
41-	50	0.0	1.00	3.00	2.00	3.00	3.00	0.0	1.50	3.00
51-	60	0.0	1.67	1.00	3.00	1.00	3.00	2.00	0.0	0.0
61-	70	0.0	2.00	4.00	2.00	0.0	3.00	3.00	0.0	0.0
71-	80	0.0	1.00	4.50	0.0	0.0	0.0	0.0	1.00	0.0
81-	90	38.00	1.00	4.00	0.0	0.0	0.0	1.00	0.0	3.00
91-	100	0.0	1.00	0.0	3.33	4.25	0.0	0.0	1.00	0.0
101-	200	3.00	2.50	3.67	3.57	3.46	2.50	2.67	1.00	0.0
201-	300	0.0	1.50	4.00	2.67	6.00	0.0	0.0	0.0	0.0
301-	400	0.0	24.50	1.00	3.00	15.00	0.0	0.0	0.0	0.0
401-	500	0.0	0.0	0.0	0.0	3.50	0.0	0.0	0.0	0.0
501-	600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601-	700	0.0	2.00	0.0	0.0	0.0	4.00	23.00	0.0	0.0
701-	800	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0
801-	900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
901-	1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1001-	2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-	3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4001-	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		4.77	1.46	3.62	2.90	3.71	2.35	4.88	1.14	3.00
CUMUL. TOTALS		0.0	1.46	1.94	2.08	2.27	2.28	2.34	2.31	2.32

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL COAL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.0	0.0	1.33	0.0	2.29	2.04	0.0	0.0
1-	10	1.00	1.00	1.22	0.0	1.55	1.24	1.22	1.24
11-	20	0.0	2.00	3.24	0.0	1.00	3.18	1.55	1.55
21-	30	0.0	0.0	1.91	0.0	1.50	1.87	1.61	1.60
31-	40	1.00	1.00	2.33	0.0	2.50	2.35	1.65	1.65
41-	50	3.00	3.00	2.13	0.0	0.0	2.13	1.68	1.67
51-	60	3.00	3.00	2.09	0.0	0.0	2.09	1.69	1.69
61-	70	0.0	0.0	2.60	0.0	0.0	2.60	1.72	1.72
71-	80	0.0	0.0	2.75	0.0	0.0	2.75	1.74	1.73
81-	90	0.0	0.0	8.33	0.0	0.0	8.33	1.87	1.86
91-	100	0.0	2.00	3.00	0.0	0.0	3.00	1.91	1.89
101-	200	0.0	0.0	3.12	0.0	5.00	3.16	2.06	2.04
201-	300	3.00	0.0	3.93	0.0	0.0	3.93	2.13	2.11
301-	400	0.0	0.0	13.71	0.0	0.0	13.71	2.38	2.32
401-	500	0.0	0.0	3.50	0.0	0.0	3.50	2.35	2.32
501-	600	0.0	0.0	0.0	0.0	0.0	0.0	2.35	2.32
601-	700	0.0	0.0	9.67	0.0	0.0	9.67	2.41	2.38
701-	800	0.0	0.0	1.00	0.0	0.0	1.00	2.40	2.38
801-	900	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
901-	1000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
1001-	2000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
2001-	3000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
4001-	5000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	2.40	2.38
COLUMN TOTALS		2.20	1.78	2.39	0.0	2.03	2.18		
CUMUL. TOTALS		2.32	2.30	2.30	2.30	2.28			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	EQUAL 0.00	0.01- 0.09	0.10- 0.19	BOILER LOAD FACTORS 0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL 1	46	0	0	0	0	0	0	0	0
1- 10	84	37	107	52	19	15	15	10	13
11- 20	7	18	19	13	7	7	7	5	4
21- 30	7	11	19	5	3	2	4	1	2
31- 40	4	5	17	6	1	3	0	0	0
41- 50	3	5	3	3	0	1	1	1	0
51- 60	5	5	2	2	1	0	1	1	0
61- 70	1	3	5	3	1	2	0	1	0
71- 80	2	0	5	3	1	0	1	0	0
81- 90	0	1	1	1	2	1	1	0	0
91- 100	0	5	4	2	2	0	0	0	0
101- 200	2	9	14	5	3	0	3	0	1
201- 300	0	3	4	3	1	0	0	0	0
301- 400	0	3	2	2	0	0	0	0	0
401- 500	0	2	1	1	0	0	0	0	0
501- 600	0	2	0	1	1	0	0	0	0
601- 700	0	0	0	0	0	0	0	0	0
701- 800	0	0	1	0	0	0	0	0	0
801- 900	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	0	0
1001- 2000	0	2	0	0	0	0	0	0	0
2001- 3000	0	1	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0
10001-100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	143	113	204	99	43	30	33	19	20
CUMUL. TOTALS	0	118	322	421	464	494	527	546	566

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80- 0.89	0.90- 0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	86	0	80	166	0	0
1-	10	0	11	312	0	37	349	312	349
11-	20	1	3	87	0	2	89	399	438
21-	30	3	3	59	0	4	65	460	503
31-	40	1	0	37	0	5	42	497	545
41-	50	0	0	17	0	0	17	514	562
51-	60	0	0	17	0	3	20	531	582
61-	70	0	0	14	0	1	15	545	597
71-	80	0	0	18	0	0	18	563	615
81-	90	0	0	7	0	0	7	570	622
91-	100	0	0	13	0	2	15	583	637
101-	200	0	0	37	0	3	40	620	677
201-	300	0	0	11	0	0	11	631	688
301-	400	0	0	7	0	0	7	638	695
401-	500	0	0	4	0	2	6	642	701
501-	600	0	0	4	0	0	4	646	705
601-	700	0	0	0	0	0	0	646	705
701-	800	0	0	1	0	0	1	647	706
801-	900	0	0	0	0	0	0	647	706
901-	1000	0	0	0	0	0	0	647	706
1001-	2000	0	0	2	0	0	2	649	708
2001-	3000	0	0	1	0	0	1	650	709
3001-	4000	0	0	0	0	0	0	650	709
4001-	5000	0	0	0	0	0	0	650	709
5001-	6000	0	0	0	0	0	0	650	709
6001-	7000	0	0	0	0	0	0	650	709
7001-	8000	0	0	0	0	0	0	650	709
8001-	9000	0	0	0	0	0	0	650	709
9001-	10000	0	0	0	0	0	0	650	709
10001-	100000	0	0	0	0	0	0	650	709
COLUMN TOTALS		4	17	736	0	139	875		
CUMUL. TOTALS		570	587	647	647	726			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	49	0	0	0	0	0	0	0	0
1-	10	20	23	71	40	9	10	8	3	6
11-	20	3	16	6	5	3	6	4	3	2
21-	30	0	5	8	3	1	3	1	2	0
31-	40	2	4	9	4	2	0	1	0	1
41-	50	0	2	4	7	1	1	2	0	0
51-	60	0	3	3	3	0	0	1	1	0
61-	70	0	3	5	1	1	0	1	0	0
71-	80	2	1	5	1	0	0	0	1	0
81-	90	0	1	3	2	1	1	1	0	0
91-	100	0	2	2	3	0	0	0	0	0
101-	200	5	12	7	5	2	2	3	0	1
201-	300	1	2	5	3	2	0	0	0	0
301-	400	0	3	1	0	1	0	0	0	0
401-	500	0	2	4	1	1	0	0	0	0
501-	600	0	1	0	0	0	0	0	0	0
601-	700	0	0	0	1	0	0	0	0	0
701-	800	0	0	1	1	1	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	3	0	0	0	0	0	0	0
2001-	3000	0	1	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		79	84	134	80	25	23	22	10	10
CUMUL. TOTALS		0	84	218	298	323	346	368	378	388

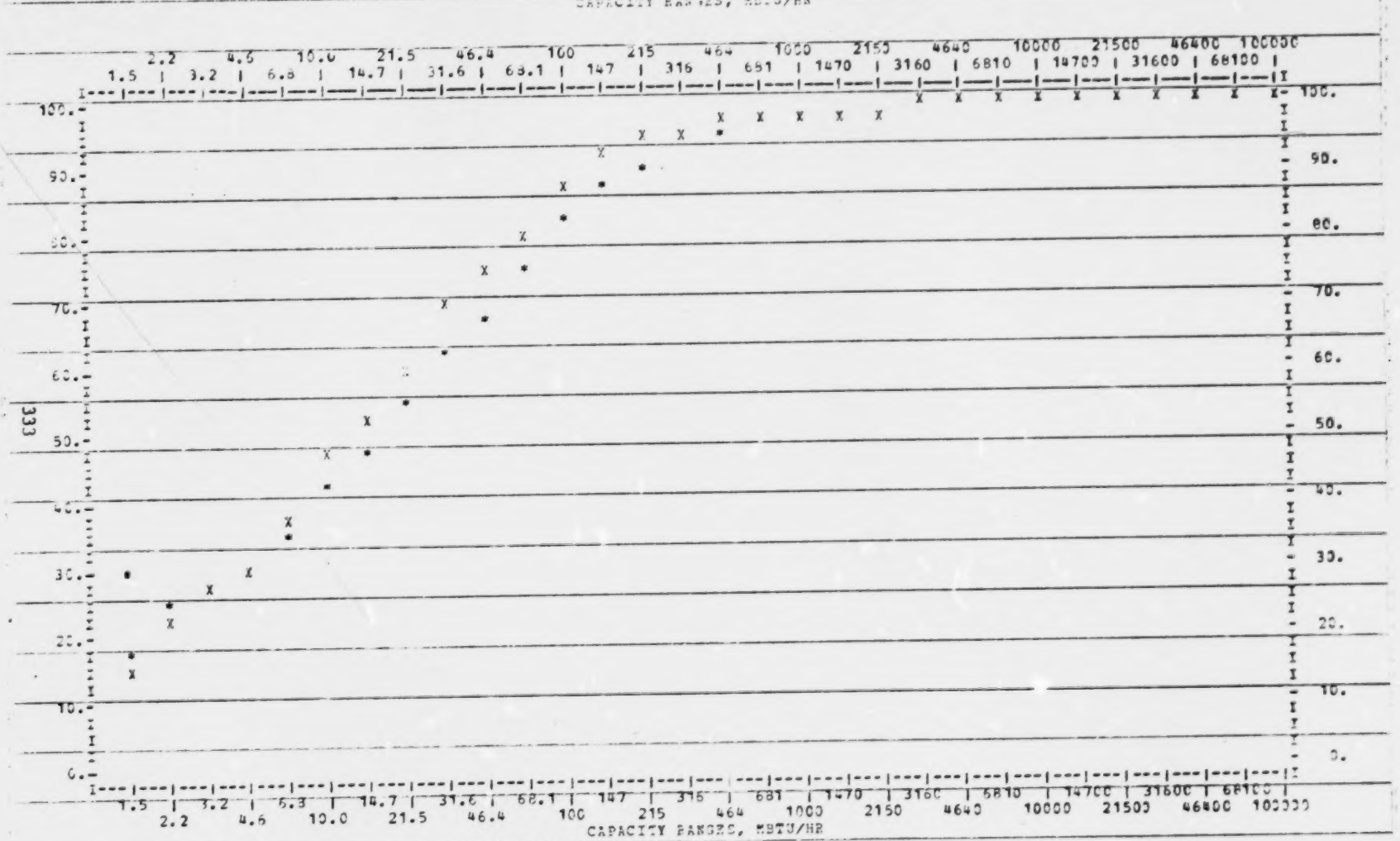
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	46	0	49	95	0	0
1-	10	0	9	199	0	28	227	199	227
11-	20	0	1	49	0	2	51	248	278
21-	30	2	3	28	0	2	30	276	308
31-	40	0	0	23	0	0	23	299	331
41-	50	0	0	17	0	1	18	316	349
51-	60	0	0	11	0	1	12	327	361
61-	70	0	0	11	0	0	11	338	372
71-	80	0	2	10	0	0	10	348	382
81-	90	0	0	9	0	0	9	357	391
91-	100	1	0	8	0	1	9	365	400
101-	200	0	1	38	0	4	42	403	442
201-	300	0	0	13	0	0	13	416	455
301-	400	0	0	5	0	1	6	421	461
401-	500	0	0	8	0	0	8	429	469
501-	600	0	0	1	0	0	1	430	470
601-	700	0	0	1	0	0	1	431	471
701-	800	0	0	3	0	0	3	434	474
801-	900	0	0	0	0	0	0	434	474
901-	1000	0	0	0	0	1	1	434	475
1001-	2000	0	0	3	0	0	3	437	478
2001-	3000	0	0	1	0	0	1	438	479
3001-	4000	0	0	0	0	0	0	438	479
4001-	5000	0	0	0	0	0	0	438	479
5001-	6000	0	0	0	0	0	0	438	479
6001-	7000	0	0	0	0	0	0	438	479
7001-	8000	0	0	0	0	0	0	438	479
8001-	9000	0	0	0	0	0	0	438	479
9001-	10000	0	0	0	0	0	0	438	479
10001-	20000	0	0	0	0	0	0	438	479
20001-	30000	0	0	0	0	0	0	438	479
30001-	40000	0	0	0	0	0	0	438	479
40001-	50000	0	0	0	0	0	0	438	479
50001-	100000	0	0	0	0	0	0	438	479
COLUMN TOTALS		3	14	484	0	90	574		
CUMUL. TOTALS		391	405	405	405	495			

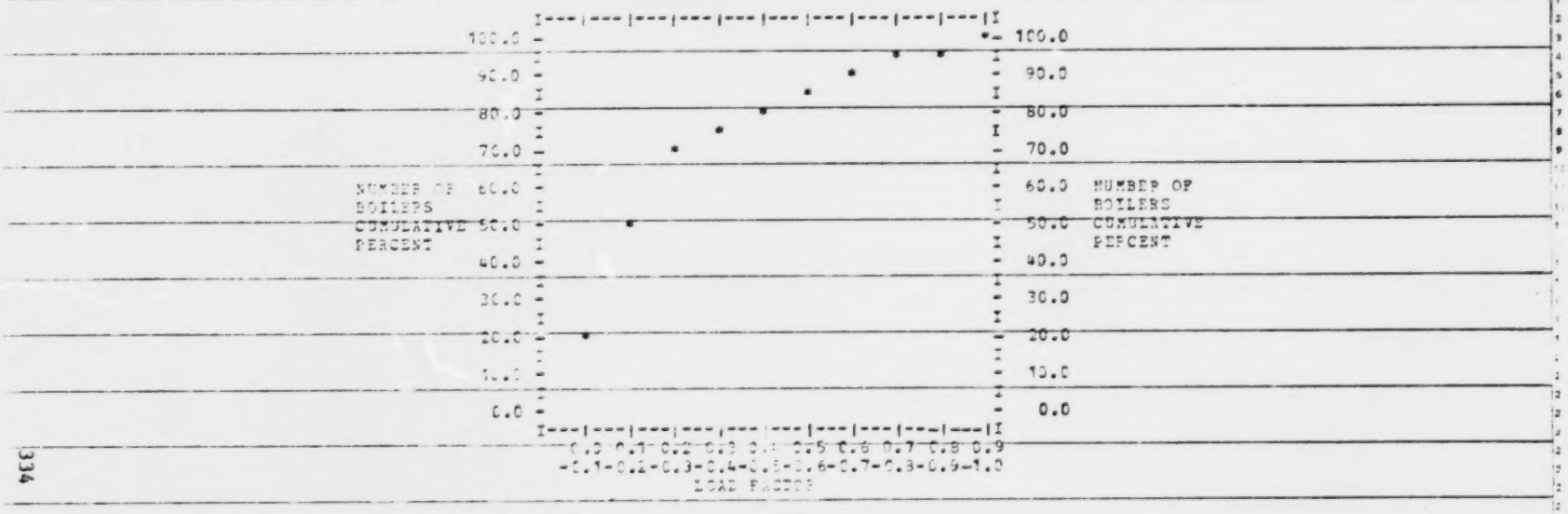
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

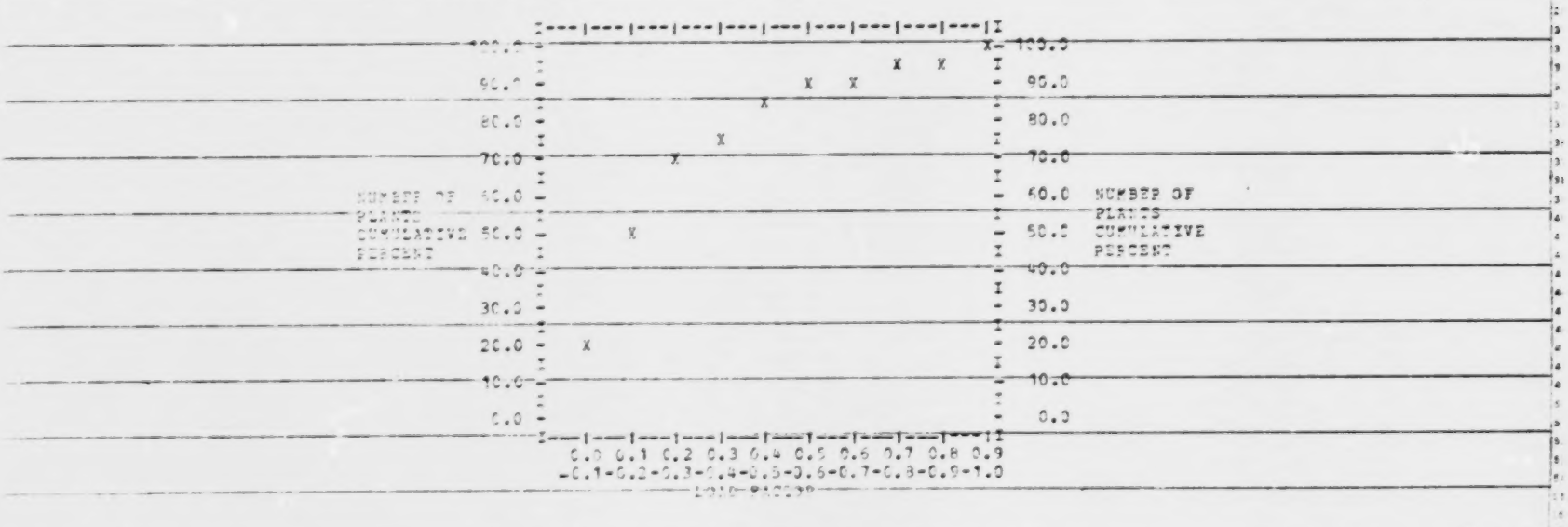
X--INDIVIDUAL BOILERS
*--INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 675 NUMBER OF BOILERS (RELIABLE DATA) = 587
NUMBER OF PLANTS (ALL DATA) = 574 NUMBER OF PLANTS (RELIABLE DATA) = 485

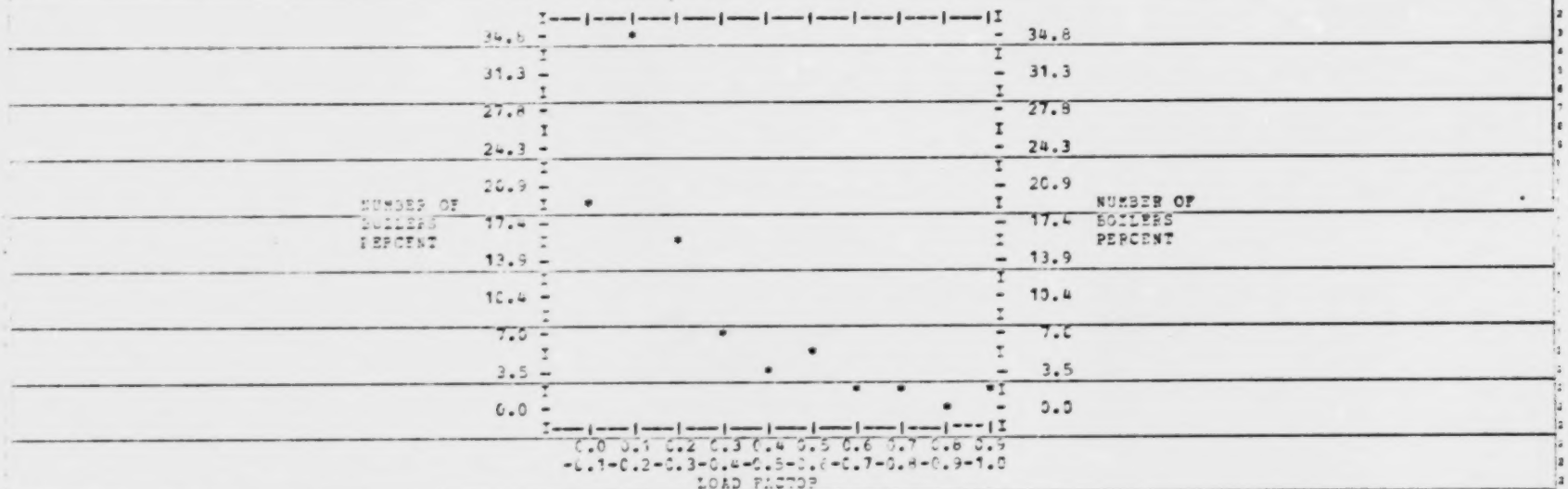
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTORS

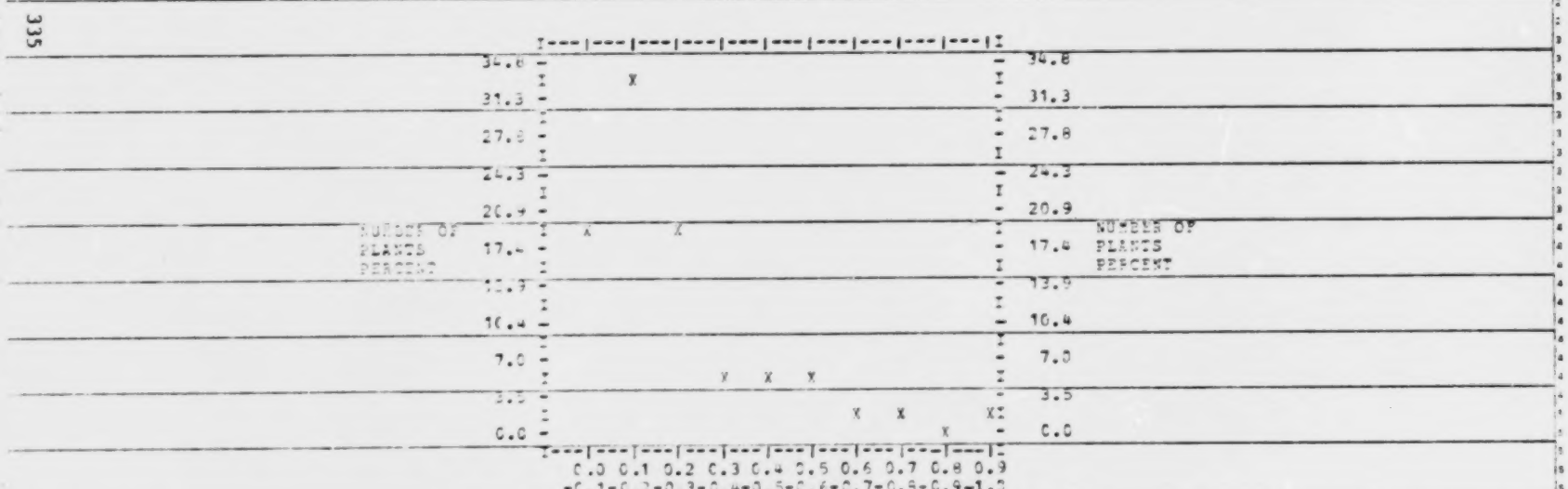




NUMBER OF BOILERS (ALL DATA) = 575 NUMBER OF BOILERS (RELIABLE DATA) = 567
NUMBER OF PLANTS (ALL DATA) = 574 NUMBER OF PLANTS (RELIABLE DATA) = 405

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTOR DENSITIES





NUMBER OF BOILERS (ALL DATA) = 875 NUMBER OF BOILERS (RELIABLE DATA) = 537
NUMBER OF PLANTS (ALL DATA = 574 NUMBER OF PLANTS (RELIABLE DATA) = 405

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	89.	173.	301.	206.	83.	59.	68.	36.	82.
11-	20	109.	271.	269.	142.	121.	119.	121.	70.	64.
21-	30	180.	303.	476.	117.	105.	54.	115.	25.	56.
31-	40	151.	185.	617.	209.	40.	116.	0.	0.	0.
41-	50	137.	223.	140.	139.	0.	50.	50.	50.	0.
51-	60	300.	270.	109.	120.	52.	0.	60.	60.	0.
61-	70	62.	195.	330.	200.	70.	0.	0.	67.	0.
71-	80	152.	456.	379.	226.	74.	0.	80.	0.	0.
81-	90	0.	84.	82.	90.	180.	88.	88.	0.	0.
91-	100	0.	484.	382.	195.	200.	0.	0.	0.	0.
101-	200	358.	1261.	1629.	887.	418.	0.	389.	0.	195.
201-	300	0.	865.	1090.	850.	214.	0.	0.	0.	0.
301-	400	0.	993.	740.	630.	0.	0.	0.	0.	0.
401-	500	0.	856.	412.	450.	0.	0.	0.	0.	0.
501-	600	0.	1195.	0.	520.	520.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	0.	0.	735.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	3654.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	2626.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		1538.	14114.	7711.	4781.	2077.	486.	971.	308.	397.
CUMUL. TOTALS		0.	14114.	21825.	26606.	28683.	29169.	30140.	30448.	30845.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MMBTU/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	FOR TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	0.	39.	1136.	0.	124.	1260.	1136.	1260.
11-	20	0.	53.	1359.	0.	31.	1390.	2495.	2650.
21-	30	80.	75.	1586.	0.	105.	1691.	4081.	4341.
31-	40	35.	0.	1356.	0.	192.	1548.	5437.	5889.
41-	50	0.	0.	789.	0.	0.	789.	6226.	6678.
51-	60	0.	0.	991.	0.	162.	1153.	7217.	7831.
61-	70	0.	0.	924.	0.	70.	994.	8141.	8825.
71-	80	0.	0.	1367.	0.	0.	1367.	9508.	10192.
81-	90	0.	0.	612.	0.	0.	612.	10120.	10804.
91-	100	0.	0.	1260.	0.	200.	1460.	11381.	12265.
101-	200	0.	0.	4937.	0.	480.	5417.	16318.	17682.
201-	300	0.	0.	3019.	0.	0.	3019.	19337.	20701.
301-	400	0.	0.	2363.	0.	0.	2363.	21700.	23064.
401-	500	0.	0.	1718.	0.	928.	2646.	23418.	25710.
501-	600	0.	0.	2235.	0.	0.	2235.	25653.	27945.
601-	700	0.	0.	0.	0.	0.	0.	25653.	27945.
701-	800	0.	0.	735.	0.	0.	735.	26388.	28680.
801-	900	0.	0.	0.	0.	0.	0.	26388.	28680.
901-	1000	0.	0.	0.	0.	0.	0.	26388.	28680.
1001-	2000	0.	0.	3654.	0.	0.	3654.	30042.	32334.
2001-	3000	0.	0.	2626.	0.	0.	2626.	32668.	34960.
3001-	4000	0.	0.	0.	0.	0.	0.	32668.	34960.
4001-	5000	0.	0.	0.	0.	0.	0.	32668.	34960.
5001-	6000	0.	0.	0.	0.	0.	0.	32668.	34960.
6001-	7000	0.	0.	0.	0.	0.	0.	32668.	34960.
7001-	8000	0.	0.	0.	0.	0.	0.	32668.	34960.
8001-	9000	0.	0.	0.	0.	0.	0.	32668.	34960.
9001-	10000	0.	0.	0.	0.	0.	0.	32668.	34960.
10001-100000		0.	0.	0.	0.	0.	0.	32668.	34960.
COLUMN TOTALS		115.	167.	32668.	0.	2292.	34960.		
CUMUL. TOTALS		30963.	31130.	31130.	31130.	33422.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

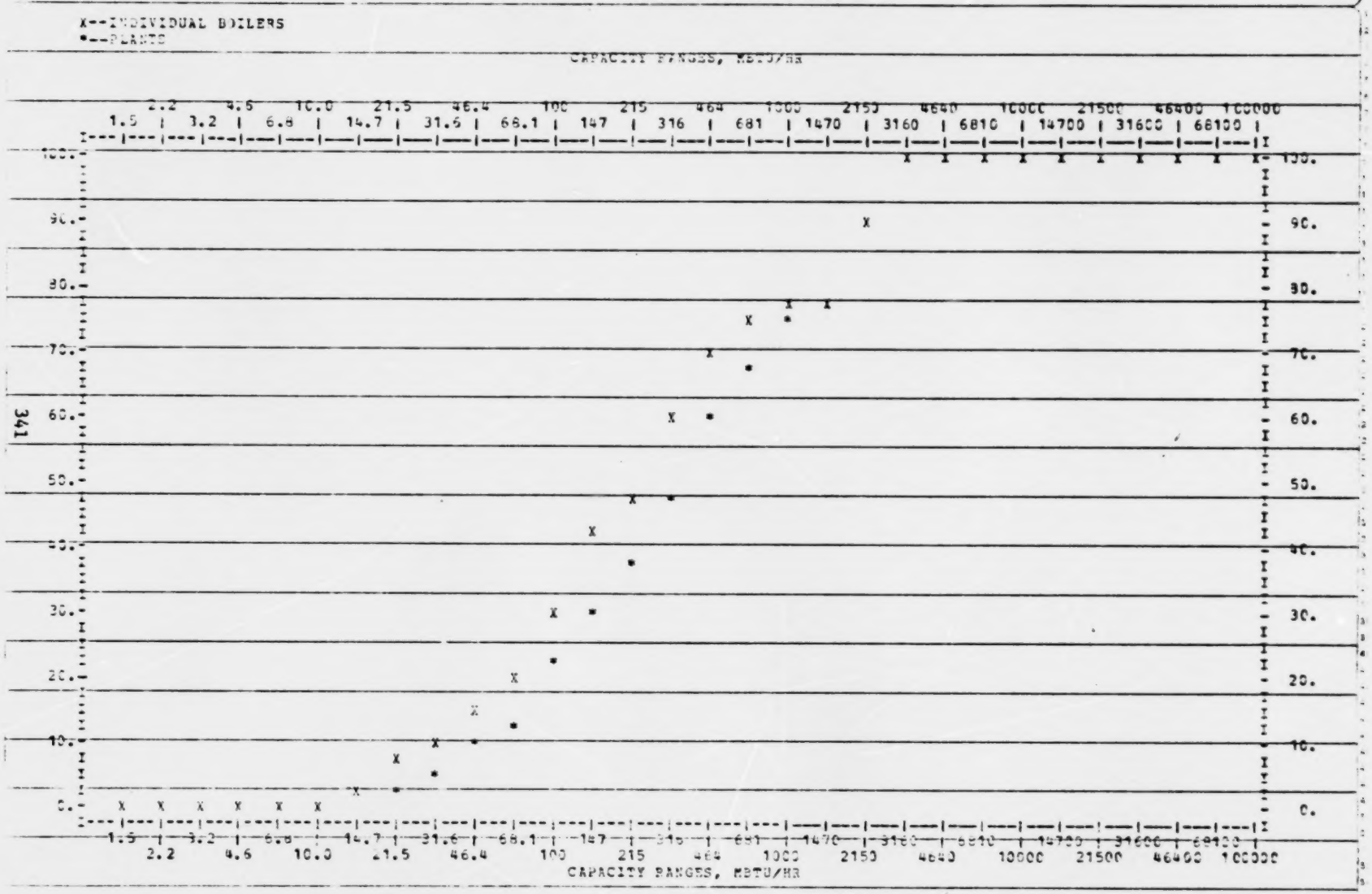
CAPACITY MBTU*S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	44.	112.	173.	136.	42.	22.	36.	11.	32.
11-	20	39.	239.	83.	77.	43.	95.	70.	49.	31.
21-	30	0.	124.	204.	64.	28.	84.	25.	51.	0.
31-	40	76.	146.	311.	141.	71.	0.	34.	0.	40.
41-	50	0.	87.	177.	328.	46.	50.	97.	0.	0.
51-	60	0.	176.	165.	172.	0.	0.	60.	60.	0.
61-	70	0.	198.	338.	62.	70.	0.	66.	0.	0.
71-	80	158.	76.	379.	76.	0.	0.	0.	80.	0.
81-	90	0.	84.	246.	177.	90.	88.	88.	0.	0.
91-	100	0.	190.	186.	295.	0.	0.	0.	0.	0.
101-	200	406.	1638.	889.	763.	319.	237.	389.	0.	195.
201-	300	238.	555.	1370.	830.	525.	0.	0.	0.	0.
301-	400	0.	1008.	360.	0.	310.	0.	0.	0.	0.
401-	500	0.	856.	1737.	450.	485.	0.	0.	0.	0.
501-	600	0.	600.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	630.	0.	0.	0.	0.	0.
701-	800	0.	0.	735.	703.	734.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	5108.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	2639.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		1361.	13836.	7403.	4904.	2763.	576.	865.	251.	298.
CUMUL. TOTALS		0.	13836.	21239.	26143.	28906.	29482.	30347.	30598.	30896.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	38.	646.	0.	86.	732.	646.	732.
11- 20	0.	14.	740.	0.	27.	767.	1386.	1499.
21- 30	53.	75.	708.	0.	55.	763.	2094.	2262.
31- 40	0.	0.	819.	0.	0.	819.	2913.	3081.
41- 50	0.	0.	785.	0.	50.	835.	3698.	3916.
51- 60	0.	0.	633.	0.	51.	684.	4331.	4600.
61- 70	0.	0.	734.	0.	0.	734.	5065.	5334.
71- 80	0.	0.	769.	0.	0.	769.	5834.	6103.
81- 90	0.	0.	773.	0.	0.	773.	6607.	6876.
91- 100	94.	0.	765.	0.	91.	856.	7372.	7732.
101- 200	0.	110.	5352.	0.	642.	5994.	12724.	13726.
201- 300	0.	0.	3518.	0.	0.	3518.	16242.	17244.
301- 400	0.	0.	1678.	0.	360.	2038.	17920.	19282.
401- 500	0.	0.	3578.	0.	0.	3578.	21498.	22860.
501- 600	0.	0.	600.	0.	0.	600.	22098.	23460.
601- 700	0.	0.	630.	0.	0.	630.	22728.	24090.
701- 800	0.	0.	2172.	0.	0.	2172.	24900.	26262.
801- 900	0.	0.	0.	0.	0.	0.	24900.	26262.
901- 1000	0.	0.	0.	0.	951.	951.	24900.	27213.
1001- 2000	0.	0.	5108.	0.	0.	5108.	30008.	32321.
2001- 3000	0.	0.	2639.	0.	0.	2639.	32647.	34960.
3001- 4000	0.	0.	0.	0.	0.	0.	32647.	34960.
4001- 5000	0.	0.	0.	0.	0.	0.	32647.	34960.
5001- 6000	0.	0.	0.	0.	0.	0.	32647.	34960.
6001- 7000	0.	0.	0.	0.	0.	0.	32647.	34960.
7001- 8000	0.	0.	0.	0.	0.	0.	32647.	34960.
8001- 9000	0.	0.	0.	0.	0.	0.	32647.	34960.
9001- 10000	0.	0.	0.	0.	0.	0.	32647.	34960.
10001- 20000	0.	0.	0.	0.	0.	0.	32647.	34960.
20001- 30000	0.	0.	0.	0.	0.	0.	32647.	34960.
30001- 40000	0.	0.	0.	0.	0.	0.	32647.	34960.
40001- 50000	0.	0.	0.	0.	0.	0.	32647.	34960.
50001-100000	0.	0.	0.	0.	0.	0.	32647.	34960.
COLUMN TOTALS	147.	243.	32647.	0.	2313.	34960.		
CUMUL. TOTALS	31043.	31286.	31286.	31286.	33599.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS



- SUM CAPACITIES (ALL DATA) = 94486. BOILER CAPACITIES (RELIABLE DATA) = 31130.
- PLANT CAPACITIES (ALL DATA) = 94486. PLANT CAPACITIES (RELIABLE DATA) = 31130.

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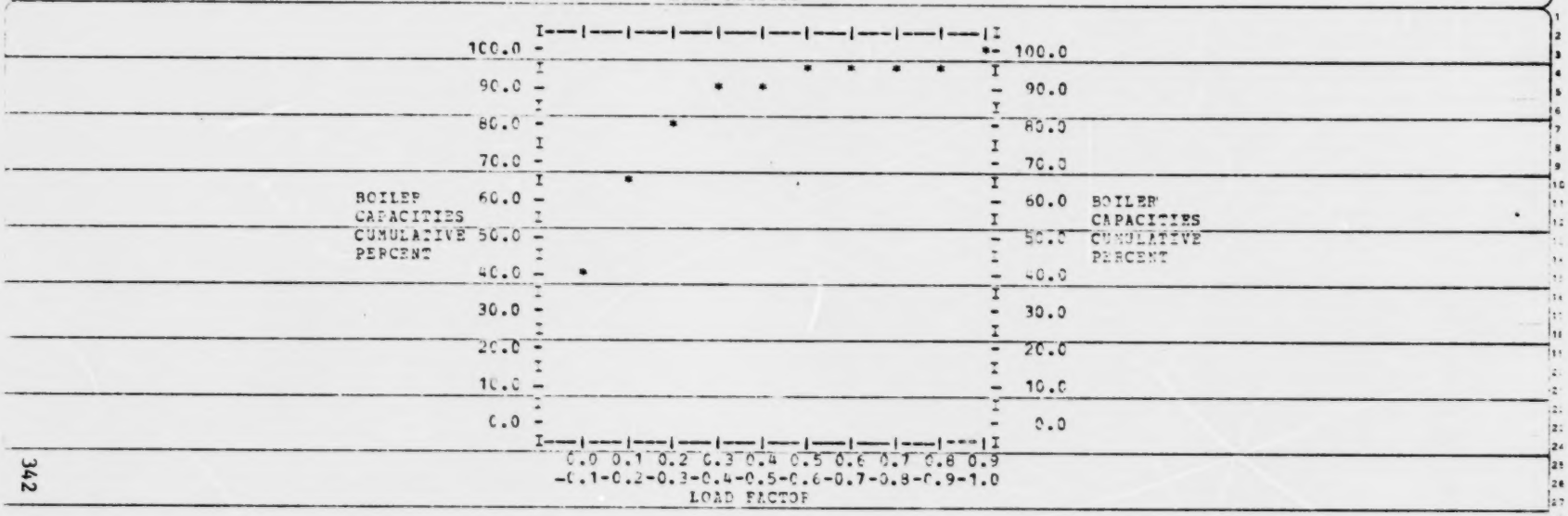
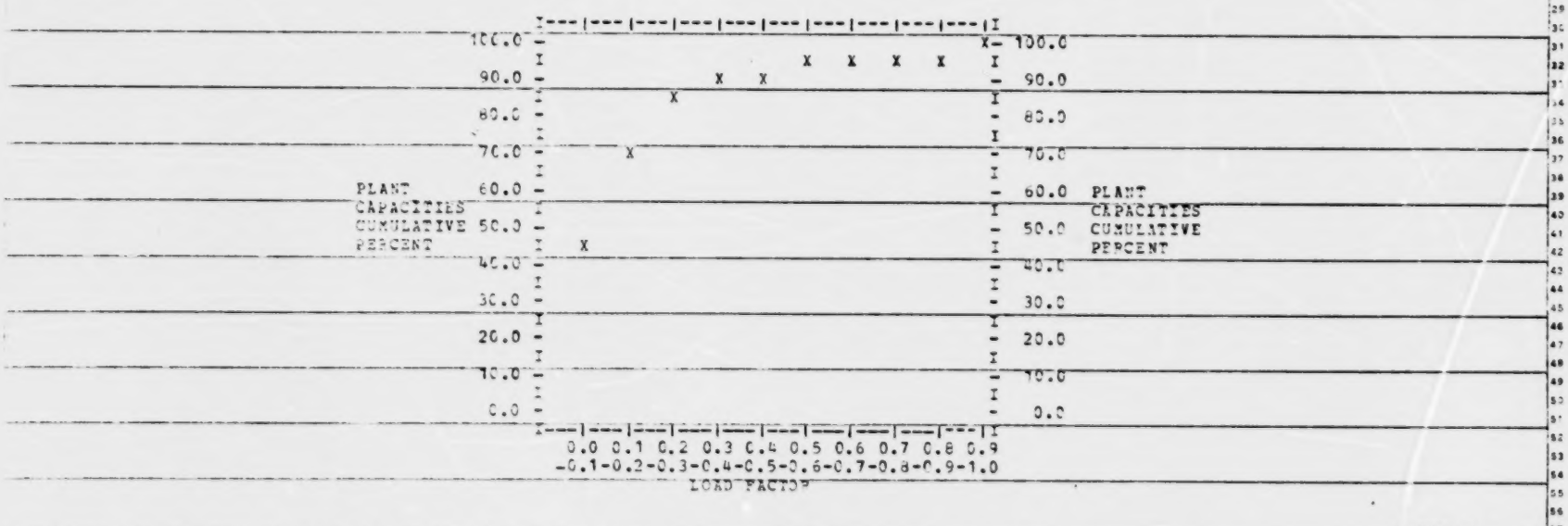
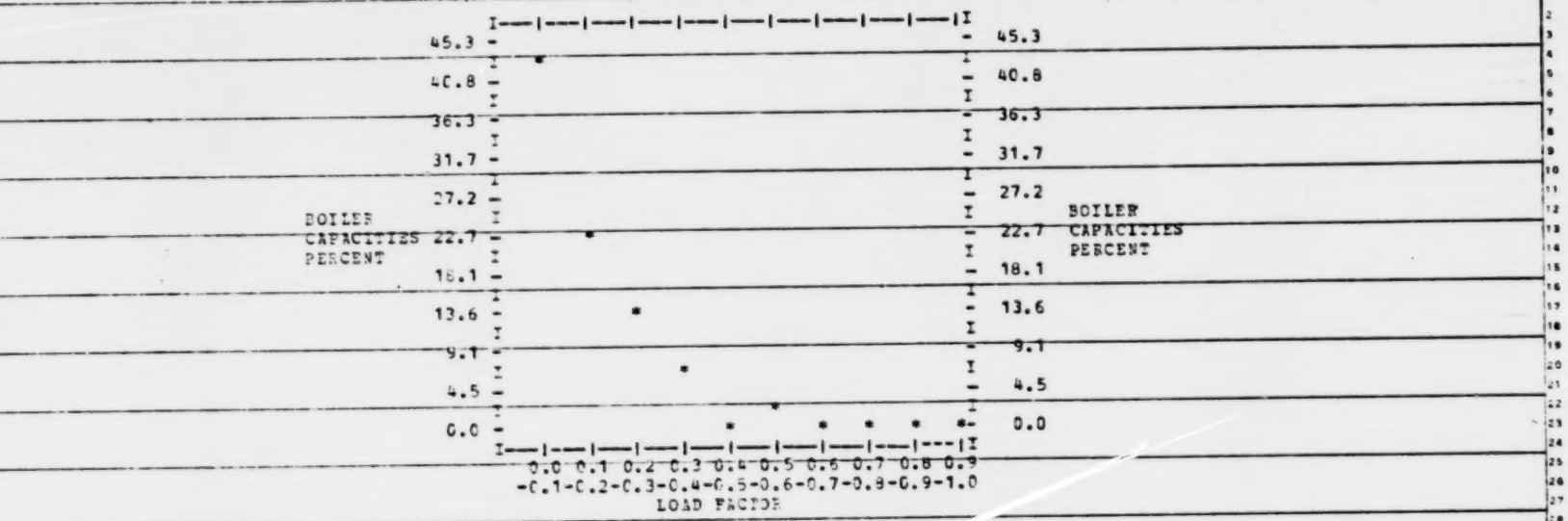
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTORS

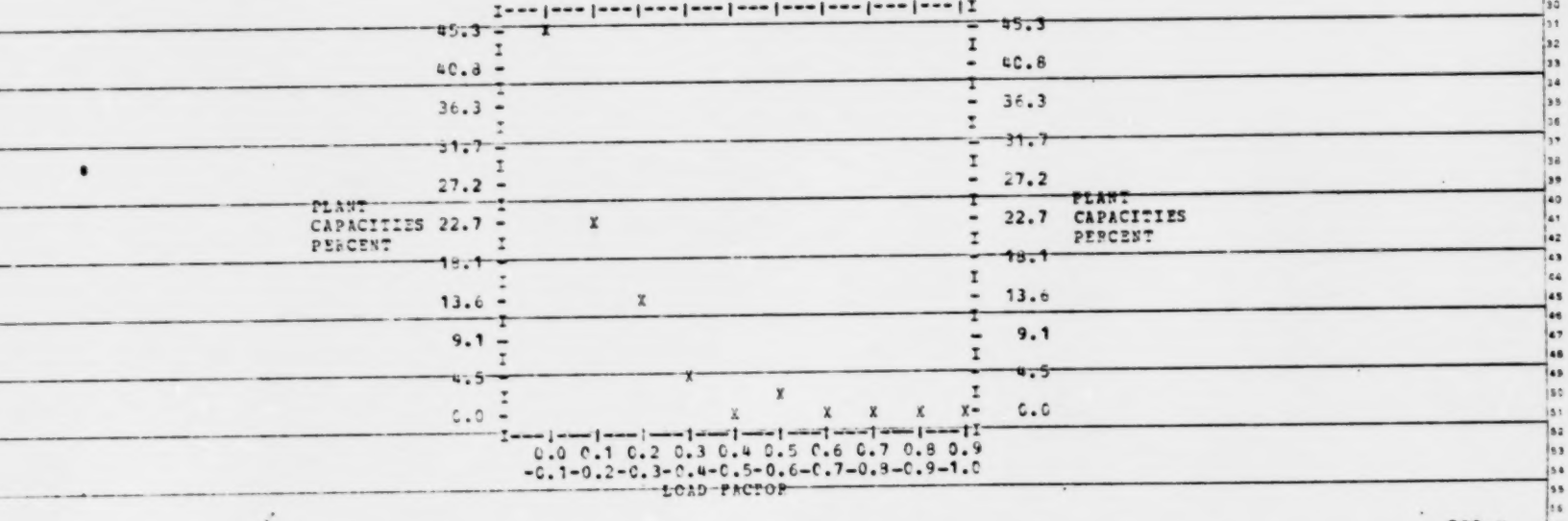




BOILER CAPACITIES (ALL DATA) = 34960. BOILER CAPACITIES (RELIABLE DATA) = 31130.
PLANT CAPACITIES (ALL DATA) = 34960. PLANT CAPACITIES (RELIABLE DATA) = 31286.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
LOAD FACTOR DENSITIES





BOILER CAPACITIES (ALL DATA) = 34950. BOILER CAPACITIES (RELIABLE DATA) = 31130.
PLANT CAPACITIES (ALL DATA) = 34960. PLANT CAPACITIES (RELIABLE DATA) = 31286.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	161	5	0	0	0	0	0	0	0
1-	10	346	2	0	0	0	1	0	0	0
11-	20	86	3	0	0	0	0	0	0	0
21-	30	62	3	0	0	0	0	0	0	0
31-	40	37	5	0	0	0	0	0	0	0
41-	50	17	0	0	0	0	0	0	0	0
51-	60	20	0	0	0	0	0	0	0	0
61-	70	15	0	0	0	0	0	0	0	0
71-	80	15	2	0	0	0	0	0	0	0
81-	90	7	0	0	0	0	0	0	0	0
91-	100	11	4	0	0	0	0	0	0	0
101-	200	40	0	0	0	0	0	0	0	0
201-	300	11	0	0	0	0	0	0	0	0
301-	400	7	0	0	0	0	0	0	0	0
401-	500	6	0	0	0	0	0	0	0	0
501-	600	4	0	0	0	0	0	0	0	0
601-	700	0	0	0	0	0	0	0	0	0
701-	800	1	0	0	0	0	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	2	0	0	0	0	0	0	0	0
2001-	3000	1	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		849	24	0	0	0	1	0	0	0
CUMUL. TOTALS		849	873	873	873	873	874	874	874	874

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0	0	0	0	0	0	0	166	166
1- 10	0	0	0	0	0	0	0	349	515
11- 20	0	0	0	0	0	0	0	89	604
21- 30	0	0	0	0	0	0	0	65	669
31- 40	0	0	0	0	0	0	0	42	711
41- 50	0	0	0	0	0	0	0	17	728
51- 60	0	0	0	0	0	0	0	20	748
61- 70	0	0	0	0	0	0	0	15	763
71- 80	1	0	0	0	0	0	0	18	781
81- 90	0	0	0	0	0	0	0	7	788
91- 100	0	0	0	0	0	0	0	15	803
101- 200	0	0	0	0	0	0	0	40	843
201- 300	0	0	0	0	0	0	0	11	854
301- 400	0	0	0	0	0	0	0	7	861
401- 500	0	0	0	0	0	0	0	6	867
501- 600	0	0	0	0	0	0	0	4	871
601- 700	0	0	0	0	0	0	0	0	871
701- 800	0	0	0	0	0	0	0	1	872
801- 900	0	0	0	0	0	0	0	0	872
901- 1000	0	0	0	0	0	0	0	0	872
1001- 2000	0	0	0	0	0	0	0	2	874
2001- 3000	0	0	0	0	0	0	0	1	875
3001- 4000	0	0	0	0	0	0	0	0	875
4001- 5000	0	0	0	0	0	0	0	0	875
5001- 6000	0	0	0	0	0	0	0	0	875
6001- 7000	0	0	0	0	0	0	0	0	875
7001- 8000	0	0	0	0	0	0	0	0	875
8001- 9000	0	0	0	0	0	0	0	0	875
9001- 10000	0	0	0	0	0	0	0	0	875
10001-100000	0	0	0	0	0	0	0	0	875
COLUMN TOTALS	1	0	0	0	0	0	0	875	
CUMUL. TOTALS	875	875	875	875	875	875	875		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	94	1	0	0	0	0	0	0	0
1-	10	225	1	0	0	0	1	0	0	0
11-	20	48	3	0	0	0	0	0	0	0
21-	30	28	2	0	0	0	0	0	0	0
31-	40	23	0	0	0	0	0	0	0	0
41-	50	18	0	0	0	0	0	0	0	0
51-	60	12	0	0	0	0	0	0	0	0
61-	70	11	0	0	0	0	0	0	0	0
71-	80	9	0	0	0	0	0	0	0	0
81-	90	9	0	0	0	0	0	0	0	0
91-	100	9	0	0	0	0	0	0	0	0
101-	200	41	1	0	0	0	0	0	0	0
201-	300	12	1	0	0	0	0	0	0	0
301-	400	5	1	0	0	0	0	0	0	0
401-	500	8	0	0	0	0	0	0	0	0
501-	600	1	0	0	0	0	0	0	0	0
601-	700	1	0	0	0	0	0	0	0	0
701-	800	3	0	0	0	0	0	0	0	0
801-	900	0	0	0	0	0	0	0	0	0
901-	1000	1	0	0	0	0	0	0	0	0
1001-	2000	3	0	0	0	0	0	0	0	0
2001-	3000	1	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		562	10	0	0	0	1	0	0	0
CUMUL. TOTALS		562	572	572	572	572	573	573	573	573

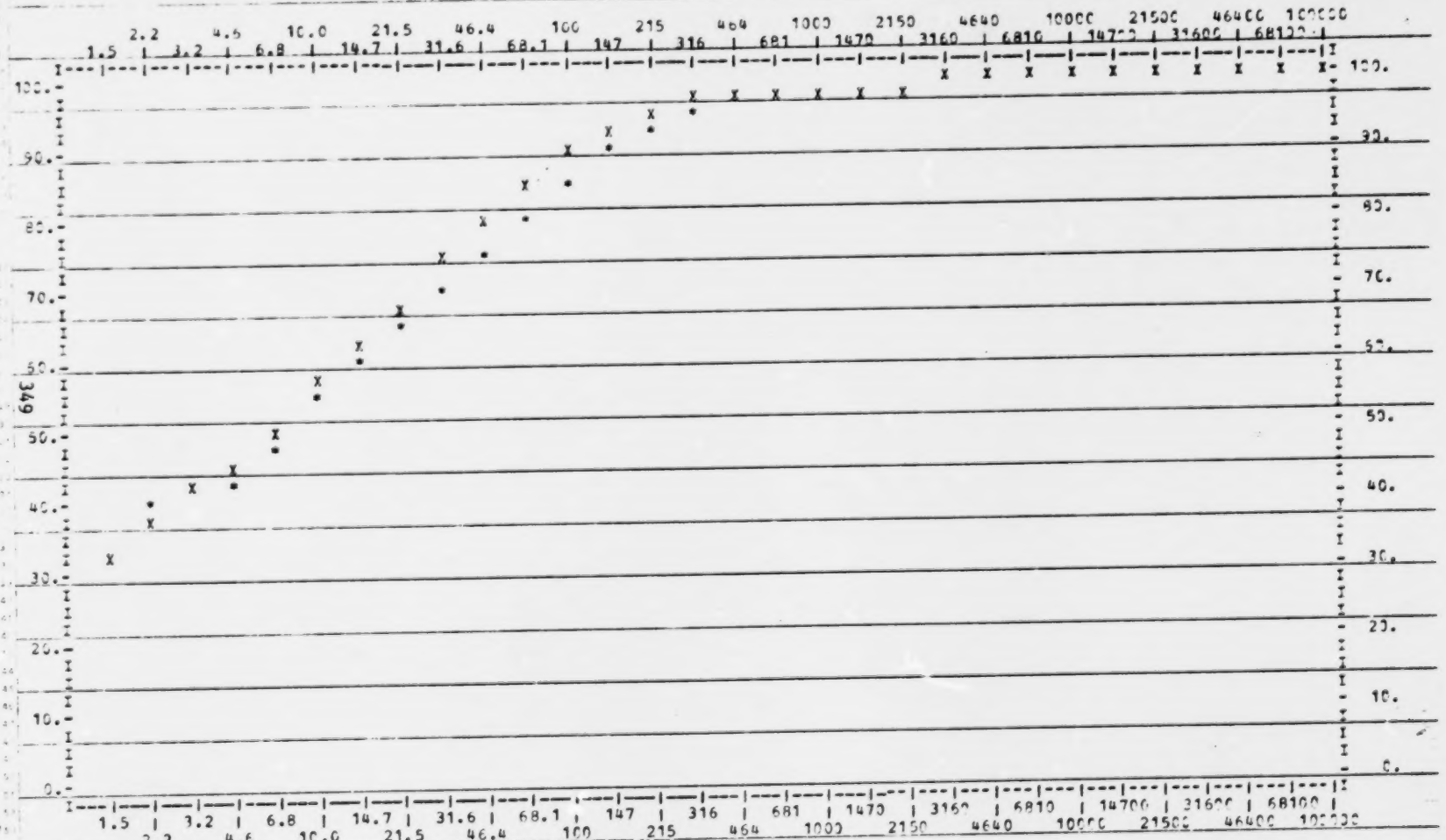
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	PGM TOTAL	CUMTOT ALL
EQUAL 0	0	0	0	0	0	0	0	95	95
1- 10	0	0	0	0	0	0	0	227	322
11- 20	0	0	0	0	0	0	0	51	373
21- 30	0	0	0	0	0	0	0	30	403
31- 40	0	0	0	0	0	0	0	23	426
41- 50	0	0	0	0	0	0	0	18	444
51- 60	0	0	0	0	0	0	0	12	456
61- 70	0	0	0	0	0	0	0	11	467
71- 80	1	0	0	0	0	0	0	10	477
81- 90	0	0	0	0	0	0	0	9	486
91- 100	0	0	0	0	0	0	0	9	495
101- 200	0	0	0	0	0	0	0	42	537
201- 300	0	0	0	0	0	0	0	13	550
301- 400	0	0	0	0	0	0	0	6	556
401- 500	0	0	0	0	0	0	0	8	564
501- 600	0	0	0	0	0	0	0	1	565
601- 700	0	0	0	0	0	0	0	1	566
701- 800	0	0	0	0	0	0	0	3	569
801- 900	0	0	0	0	0	0	0	0	569
901- 1000	0	0	0	0	0	0	0	1	570
1001- 2000	0	0	0	0	0	0	0	3	573
2001- 3000	0	0	0	0	0	0	0	1	574
3001- 4000	0	0	0	0	0	0	0	0	574
4001- 5000	0	0	0	0	0	0	0	0	574
5001- 6000	0	0	0	0	0	0	0	0	574
6001- 7000	0	0	0	0	0	0	0	0	574
7001- 8000	0	0	0	0	0	0	0	0	574
8001- 9000	0	0	0	0	0	0	0	0	574
9001- 10000	0	0	0	0	0	0	0	0	574
10001- 20000	0	0	0	0	0	0	0	0	574
20001- 30000	0	0	0	0	0	0	0	0	574
30001- 40000	0	0	0	0	0	0	0	0	574
40001- 50000	0	0	0	0	0	0	0	0	574
50001-100000	0	0	0	0	0	0	0	0	574
COLUMN TOTALS	1	0	0	0	0	0	0	574	
CUMUL. TOTALS	574	574	574	574	574	574	574		

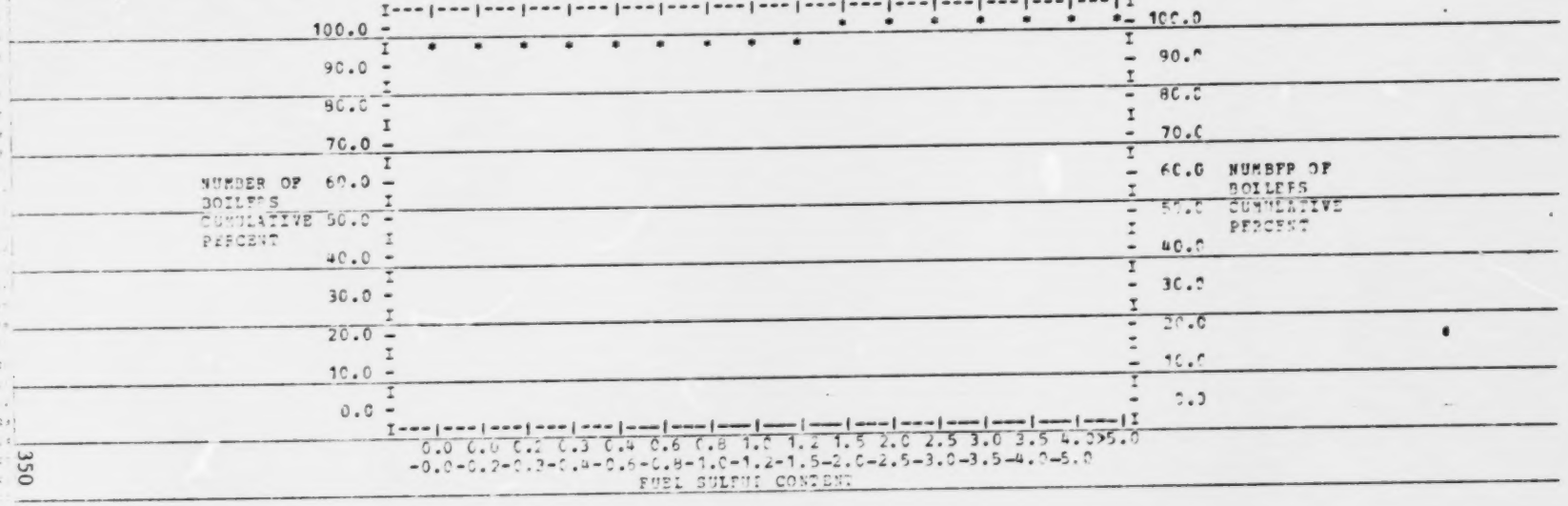
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

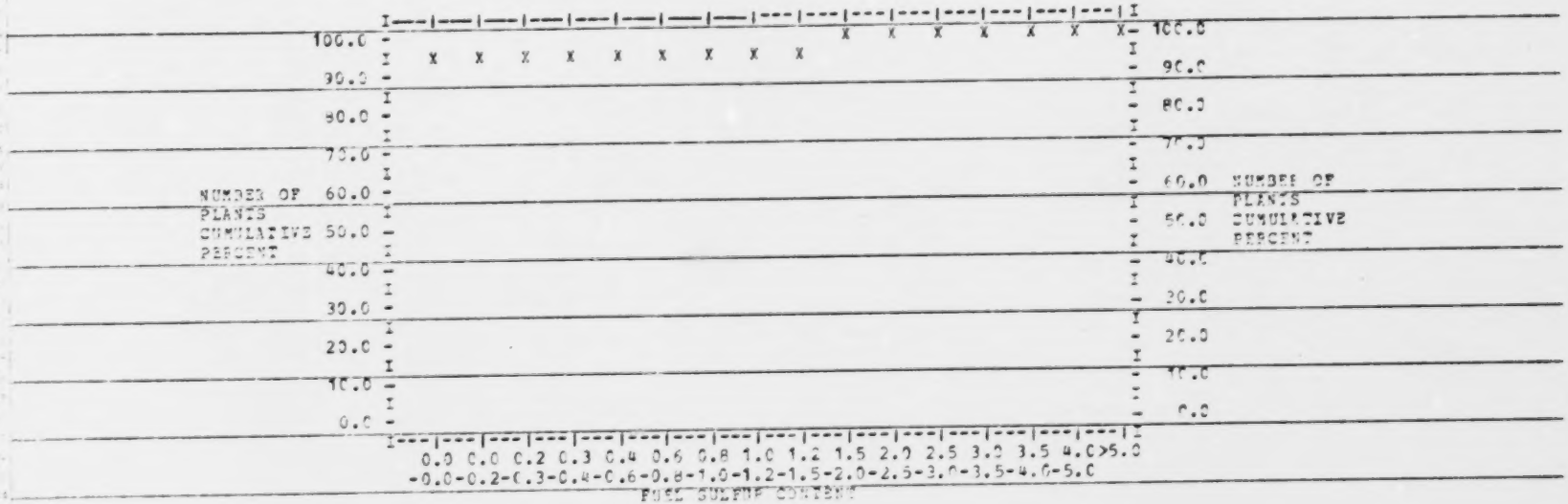
X---INDIVIDUAL BOILERS
•---INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 875
NUMBER OF PLANTS (ALL DATA) = 574

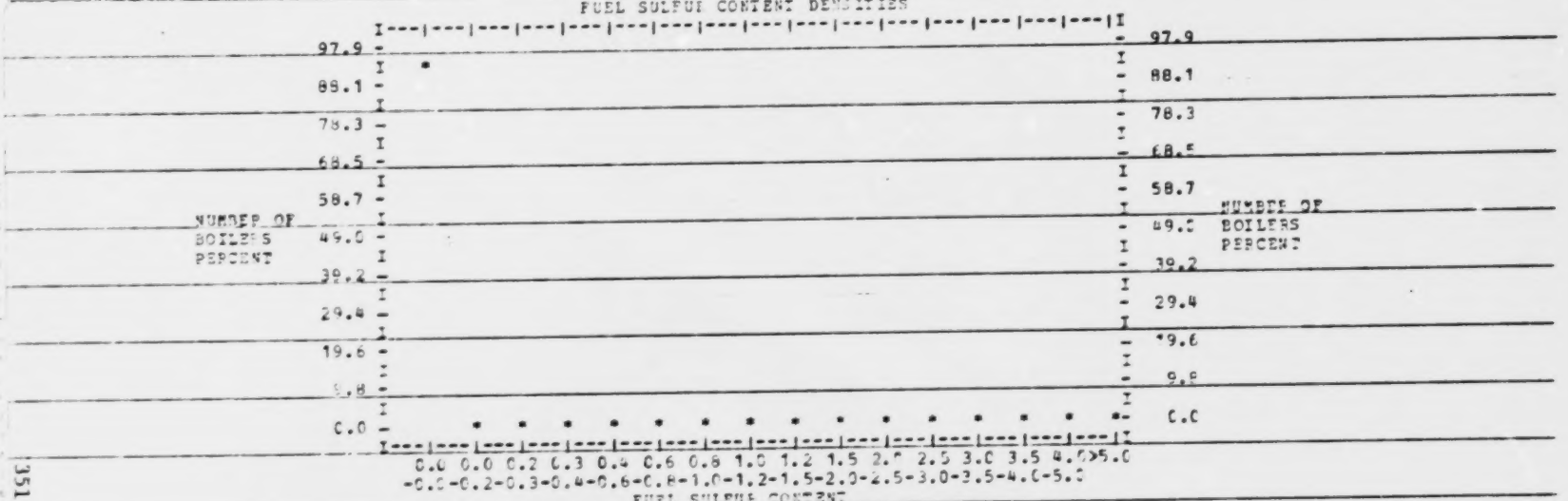
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS

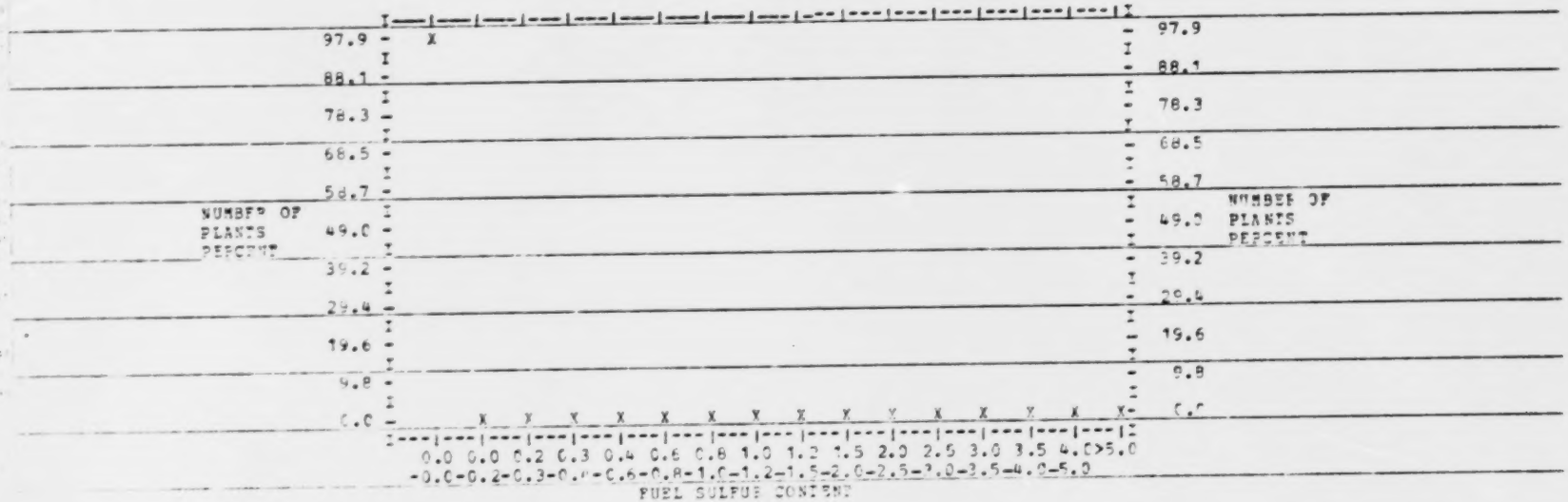




NUMBER OF BOILERS (ALL DATA) = 675
NUMBER OF PLANTS (ALL DATA) = 574

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





[illegible] (ALL DATA) = 875
[illegible] (ALL DATA) = 57.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	1247.	11.	0.	0.	0.	2.	0.	0.	0.
11-	20	1349.	41.	0.	0.	0.	0.	0.	0.	0.
21-	30	1608.	83.	0.	0.	0.	0.	0.	0.	0.
31-	40	1348.	200.	0.	0.	0.	0.	0.	0.	0.
41-	50	789.	0.	0.	0.	0.	0.	0.	0.	0.
51-	60	1153.	0.	0.	0.	0.	0.	0.	0.	0.
61-	70	994.	0.	0.	0.	0.	0.	0.	0.	0.
71-	80	1141.	150.	0.	0.	0.	0.	0.	0.	0.
81-	90	612.	0.	0.	0.	0.	0.	0.	0.	0.
91-	100	1061.	400.	0.	0.	0.	0.	0.	0.	0.
101-	200	5417.	0.	0.	0.	0.	0.	0.	0.	0.
201-	300	3019.	0.	0.	0.	0.	0.	0.	0.	0.
301-	400	2363.	0.	0.	0.	0.	0.	0.	0.	0.
401-	500	2646.	0.	0.	0.	0.	0.	0.	0.	0.
501-	600	2235.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	735.	0.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	3654.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	2626.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		33997.	885.	0.	0.	0.	2.	0.	0.	0.
CUMUL. TOTALS		33997.	34882.	34882.	34882.	34882.	34884.	34884.	34884.	34884.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	0.	0.	1260.	1260.
11- 20	0.	0.	0.	0.	0.	0.	0.	1390.	2650.
21- 30	0.	0.	0.	0.	0.	0.	0.	1691.	4341.
31- 40	0.	0.	0.	0.	0.	0.	0.	1548.	5889.
41- 50	0.	0.	0.	0.	0.	0.	0.	789.	6678.
51- 60	0.	0.	0.	0.	0.	0.	0.	1153.	7831.
61- 70	0.	0.	0.	0.	0.	0.	0.	994.	8825.
71- 80	76.	0.	0.	0.	0.	0.	0.	1367.	10192.
81- 90	0.	0.	0.	0.	0.	0.	0.	612.	10804.
91- 100	0.	0.	0.	0.	0.	0.	0.	1461.	12265.
101- 200	0.	0.	0.	0.	0.	0.	0.	5417.	17682.
201- 300	0.	0.	0.	0.	0.	0.	0.	3019.	22701.
301- 400	0.	0.	0.	0.	0.	0.	0.	2363.	25064.
401- 500	0.	0.	0.	0.	0.	0.	0.	2646.	25710.
501- 600	0.	0.	0.	0.	0.	0.	0.	2235.	27945.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	27945.
701- 800	0.	0.	0.	0.	0.	0.	0.	735.	28680.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	28680.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	28680.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	3654.	32334.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	2626.	34960.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
COLUMN TOTALS	76.	0.	0.	0.	0.	0.	0.	34960.	
CUMUL. TOTALS	34960.	34960.	34960.	34960.	34960.	34960.	34960.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
		EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	729.	1.	0.	0.	0.	2.	0.	0.	0.
11-	20	726.	41.	0.	0.	0.	0.	0.	0.	0.
21-	30	710.	53.	0.	0.	0.	0.	0.	0.	0.
31-	40	819.	0.	0.	0.	0.	0.	0.	0.	0.
41-	50	835.	0.	0.	0.	0.	0.	0.	0.	0.
51-	60	684.	0.	0.	0.	0.	0.	0.	0.	0.
61-	70	734.	0.	0.	0.	0.	0.	0.	0.	0.
71-	80	693.	0.	0.	0.	0.	0.	0.	0.	0.
81-	90	773.	0.	0.	0.	0.	0.	0.	0.	0.
91-	100	856.	0.	0.	0.	0.	0.	0.	0.	0.
101-	200	5844.	150.	0.	0.	0.	0.	0.	0.	0.
201-	300	3238.	280.	0.	0.	0.	0.	0.	0.	0.
301-	400	1678.	360.	0.	0.	0.	0.	0.	0.	0.
401-	500	3578.	0.	0.	0.	0.	0.	0.	0.	0.
501-	600	600.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	630.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	2172.	0.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	951.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	5108.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	2639.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		33997.	885.	0.	0.	0.	2.	0.	0.	0.
CUMULATIVE TOTALS		33997.	34882.	34882.	34882.	34882.	34884.	34884.	34884.	34884.

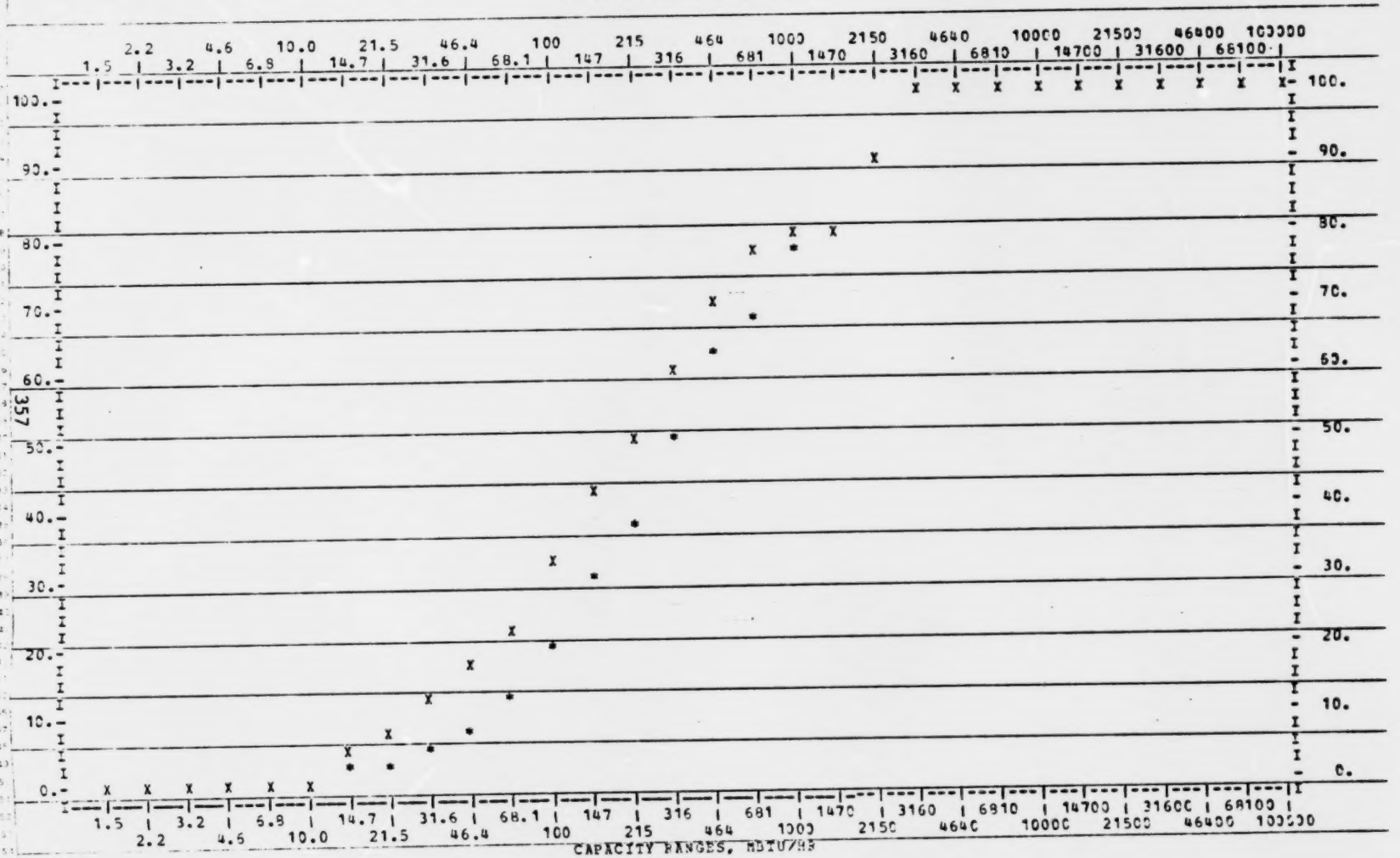
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	0.	0.	732.	732.
11- 20	0.	0.	0.	0.	0.	0.	0.	753.	1499.
21- 30	0.	0.	0.	0.	0.	0.	0.	763.	2262.
31- 40	0.	0.	0.	0.	0.	0.	0.	819.	3081.
41- 50	0.	0.	0.	0.	0.	0.	0.	835.	3916.
51- 60	0.	0.	0.	0.	0.	0.	0.	684.	4600.
61- 70	0.	0.	0.	0.	0.	0.	0.	734.	5334.
71- 80	76.	0.	0.	0.	0.	0.	0.	769.	6103.
81- 90	0.	0.	0.	0.	0.	0.	0.	773.	6876.
91- 100	0.	0.	0.	0.	0.	0.	0.	856.	7732.
101- 200	0.	0.	0.	0.	0.	0.	0.	5994.	13726.
201- 300	0.	0.	0.	0.	0.	0.	0.	3518.	17244.
301- 400	0.	0.	0.	0.	0.	0.	0.	2038.	19282.
401- 500	0.	0.	0.	0.	0.	0.	0.	3578.	22860.
501- 600	0.	0.	0.	0.	0.	0.	0.	600.	23460.
601- 700	0.	0.	0.	0.	0.	0.	0.	630.	24090.
701- 800	0.	0.	0.	0.	0.	0.	0.	2172.	26262.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	26262.
901- 1000	0.	0.	0.	0.	0.	0.	0.	951.	32321.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	5108.	34960.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	2639.	34960.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	34960.
COLMN TOTALS	76.	0.	0.	0.	0.	0.	0.	34960.	
CUMUL. TOTALS	34960.	34960.	34960.	34960.	34960.	34960.	34960.		

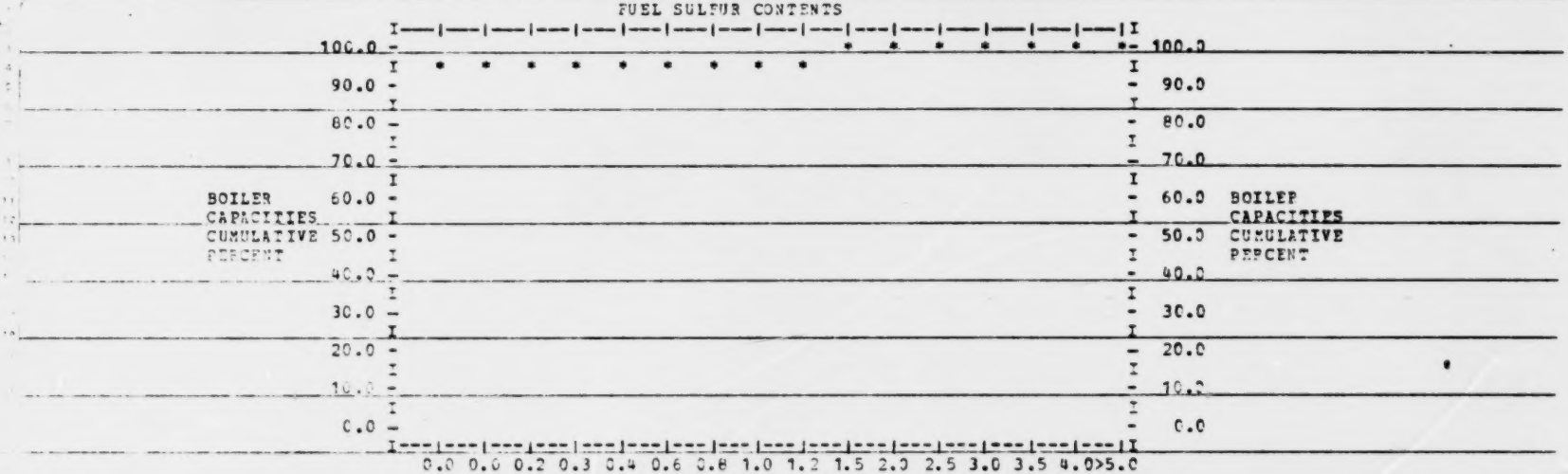
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

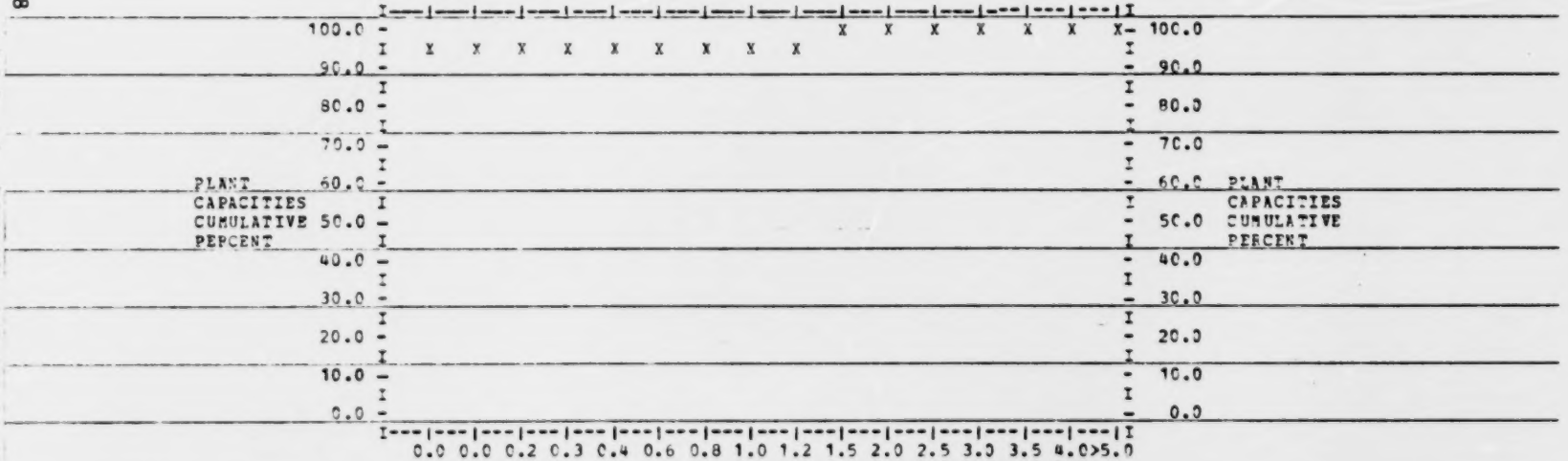
X--INDIVIDUAL BOILERS
*--PLANTS



BOILER CAPACITIES (ALL DATA) = 34960.
PLANT CAPACITIES (ALL DATA) = 34960.

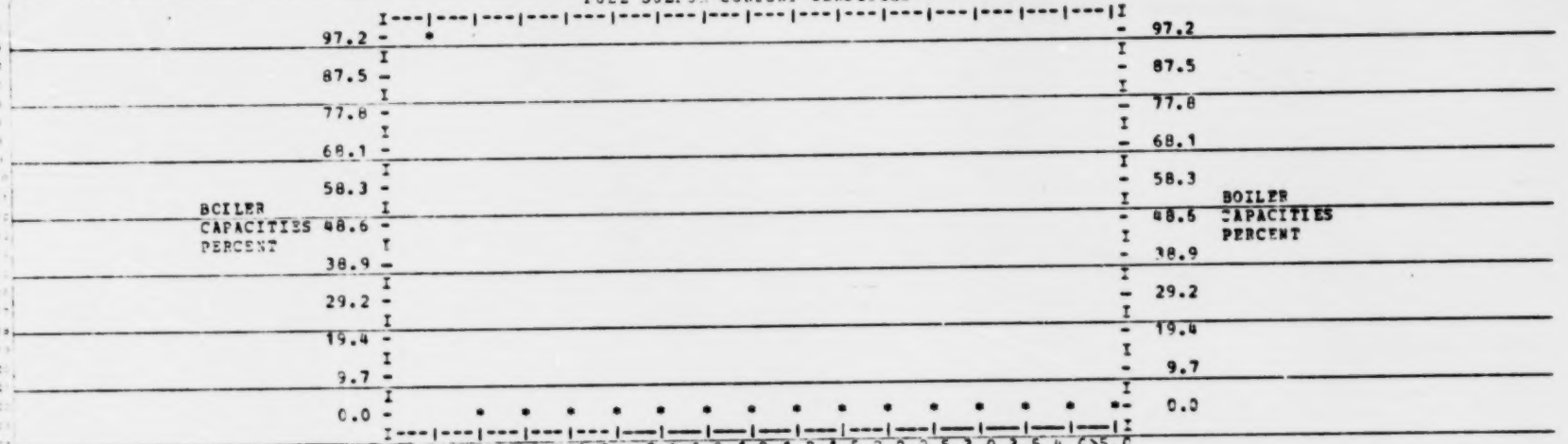
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS

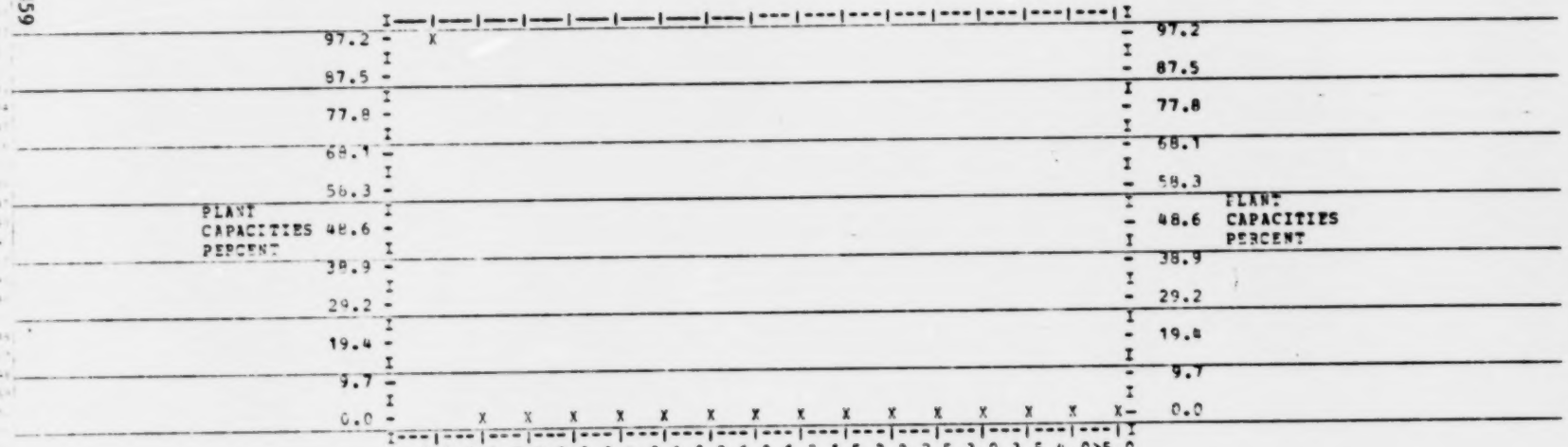




BOILER CAPACITIES (ALL DATA) = 34960.
PLANT CAPACITIES (ALL DATA) = 34960.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MILLION BTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	1.	0.	0.	0.
11- 20	0.	1.	0.	0.	0.	0.	0.	0.	0.
21- 30	0.	0.	0.	0.	0.	0.	0.	0.	0.
31- 40	0.	2.	0.	0.	0.	0.	0.	0.	0.
41- 50	0.	0.	0.	0.	0.	0.	0.	0.	0.
51- 60	0.	0.	0.	0.	0.	0.	0.	0.	0.
61- 70	0.	0.	0.	0.	0.	0.	0.	0.	0.
71- 80	0.	0.	0.	0.	0.	0.	0.	0.	0.
81- 90	0.	0.	0.	0.	0.	0.	0.	0.	0.
91- 100	0.	10.	0.	0.	0.	0.	0.	0.	0.
101- 200	0.	0.	0.	0.	0.	0.	0.	0.	0.
201- 300	0.	0.	0.	0.	0.	0.	0.	0.	0.
301- 400	0.	0.	0.	0.	0.	0.	0.	0.	0.
401- 500	0.	0.	0.	0.	0.	0.	0.	0.	0.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	13.	0.	0.	0.	1.	0.	0.	0.
CUMUL. TOTALS	0.	13.	13.	13.	13.	14.	14.	14.	14.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUSTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	0.	0.	1.	1.
11- 20	0.	0.	0.	0.	0.	0.	0.	1.	2.
21- 30	0.	0.	0.	0.	0.	0.	0.	0.	2.
31- 40	0.	0.	0.	0.	0.	0.	0.	2.	5.
41- 50	0.	0.	0.	0.	0.	0.	0.	0.	5.
51- 60	0.	0.	0.	0.	0.	0.	0.	0.	5.
61- 70	0.	0.	0.	0.	0.	0.	0.	0.	5.
71- 80	0.	0.	0.	0.	0.	0.	0.	9.	14.
81- 90	0.	0.	0.	0.	0.	0.	0.	0.	14.
91- 100	0.	0.	0.	0.	0.	0.	0.	10.	24.
101- 200	0.	0.	0.	0.	0.	0.	0.	0.	24.
201- 300	0.	0.	0.	0.	0.	0.	0.	0.	24.
301- 400	0.	0.	0.	0.	0.	0.	0.	0.	24.
401- 500	0.	0.	0.	0.	0.	0.	0.	0.	24.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	24.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	24.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	24.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	24.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	24.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	24.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	24.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	24.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	24.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	24.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	24.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	24.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	24.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	24.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	24.
COLUMN TOTALS	9.	0.	0.	0.	0.	0.	0.	24.	
CUMUL. TOTALS	24.	24.	24.	24.	24.	24.	24.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU*S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	1.	0.	0.	0.
11- 20	0.	1.	0.	0.	0.	0.	0.	0.	0.
21- 30	0.	0.	0.	0.	0.	0.	0.	0.	0.
31- 40	0.	0.	0.	0.	0.	0.	0.	0.	0.
41- 50	0.	0.	0.	0.	0.	0.	0.	0.	0.
51- 60	0.	0.	0.	0.	0.	0.	0.	0.	0.
61- 70	0.	0.	0.	0.	0.	0.	0.	0.	0.
71- 80	0.	0.	0.	0.	0.	0.	0.	0.	0.
81- 90	0.	0.	0.	0.	0.	0.	0.	0.	0.
91- 100	0.	0.	0.	0.	0.	0.	0.	0.	0.
101- 200	0.	0.	0.	0.	0.	0.	0.	0.	0.
201- 300	0.	0.	0.	0.	0.	0.	0.	0.	0.
301- 400	0.	12.	0.	0.	0.	0.	0.	0.	0.
401- 500	0.	0.	0.	0.	0.	0.	0.	0.	0.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	13.	0.	0.	0.	1.	0.	0.	0.
CUMUL. TOTALS	0.	13.	13.	13.	13.	14.	14.	14.	14.

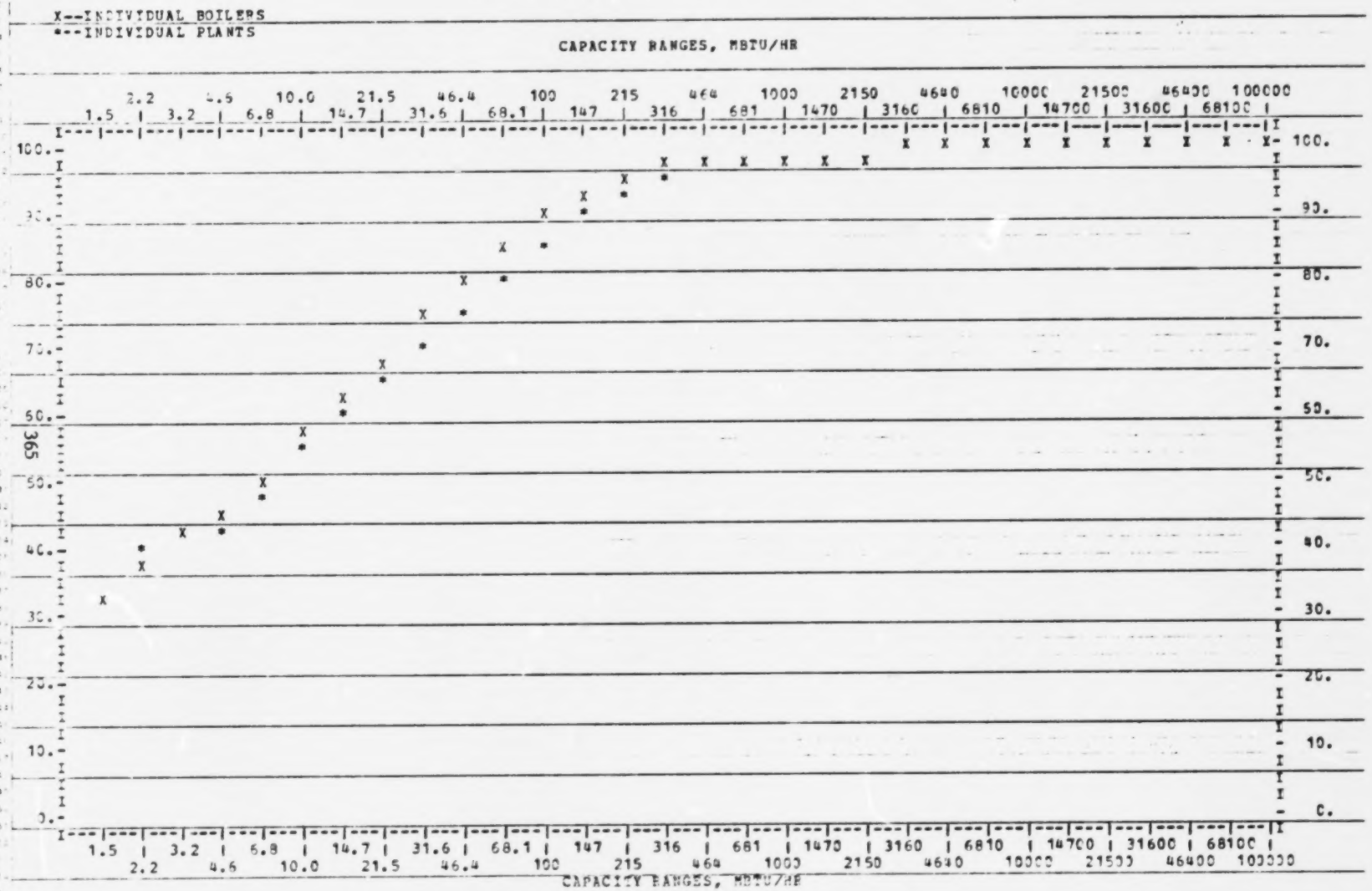
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MCU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	0.	0.	1.	1.
11- 20	0.	0.	0.	0.	0.	0.	0.	1.	2.
21- 30	0.	0.	0.	0.	0.	0.	0.	0.	2.
31- 40	0.	0.	0.	0.	0.	0.	0.	0.	2.
41- 50	0.	0.	0.	0.	0.	0.	0.	0.	2.
51- 60	0.	0.	0.	0.	0.	0.	0.	0.	2.
61- 70	0.	0.	0.	0.	0.	0.	0.	0.	2.
71- 80	9.	0.	0.	0.	0.	0.	0.	9.	12.
81- 90	0.	0.	0.	0.	0.	0.	0.	0.	12.
91- 100	0.	0.	0.	0.	0.	0.	0.	0.	12.
101- 200	0.	0.	0.	0.	0.	0.	0.	0.	12.
201- 300	0.	0.	0.	0.	0.	0.	0.	0.	12.
301- 400	0.	0.	0.	0.	0.	0.	0.	12.	24.
401- 500	0.	0.	0.	0.	0.	0.	0.	0.	24.
501- 600	0.	0.	0.	0.	0.	0.	0.	0.	24.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	24.
701- 800	0.	0.	0.	0.	0.	0.	0.	0.	24.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	24.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	24.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	0.	24.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	24.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	24.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	24.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	24.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	24.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	24.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	24.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	24.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	24.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	24.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	24.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	24.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	24.
COLUMN TOTALS	9.	0.	0.	0.	0.	0.	0.	24.	
CUMUL. TOTALS	24.	24.	24.	24.	24.	24.	24.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

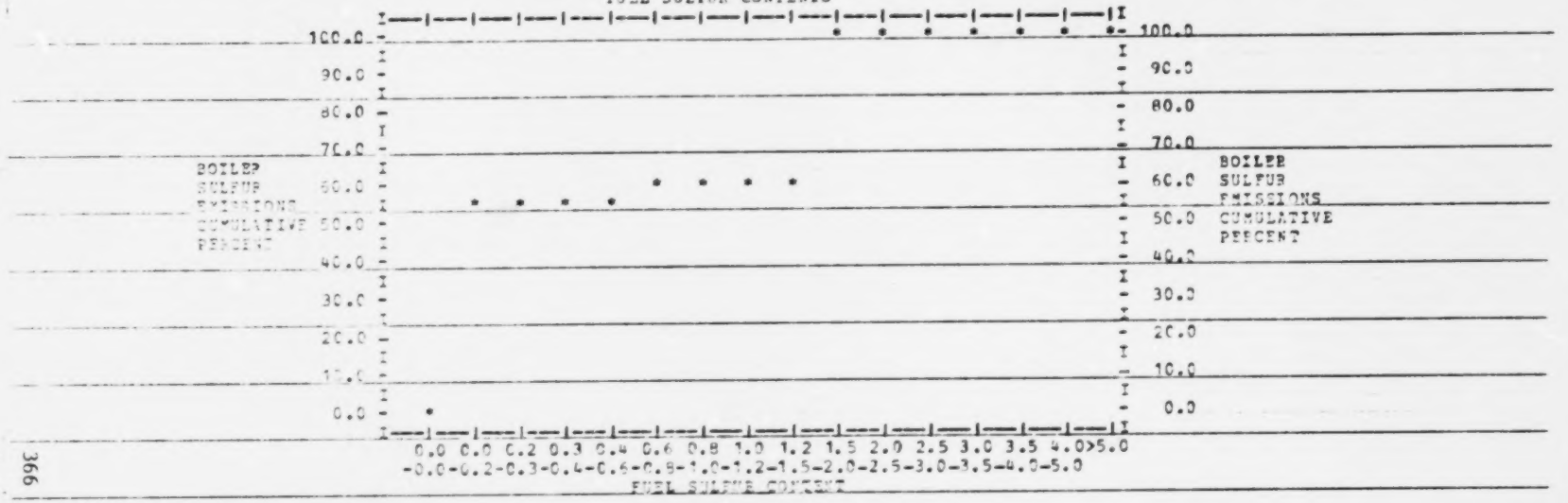
X---INDIVIDUAL BOILERS
*---INDIVIDUAL PLANTS

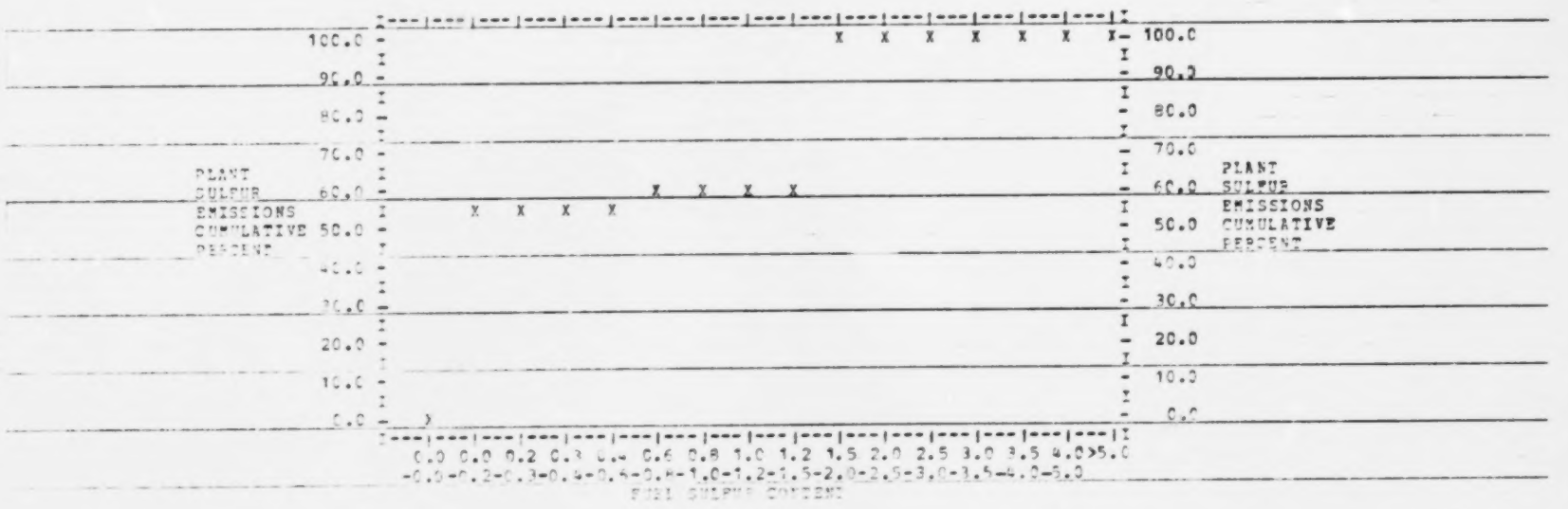


NUMBER OF BOILERS (ALL DATA) = 875
NUMBER OF PLANTS (ALL DATA) = 574

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS

FUEL SULFUR CONTENTS



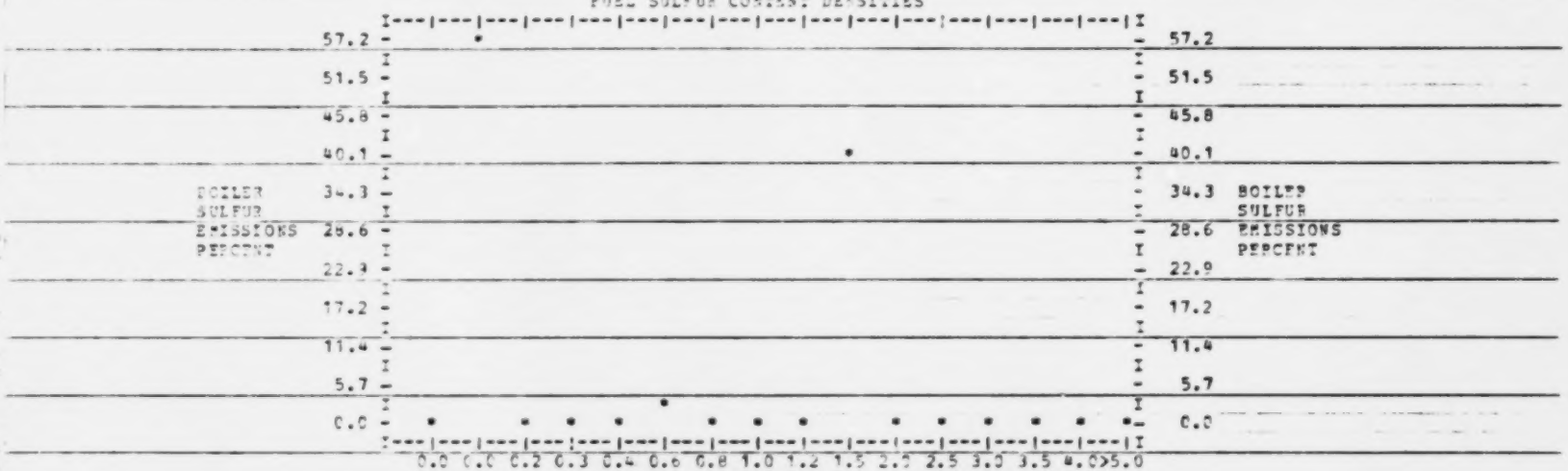


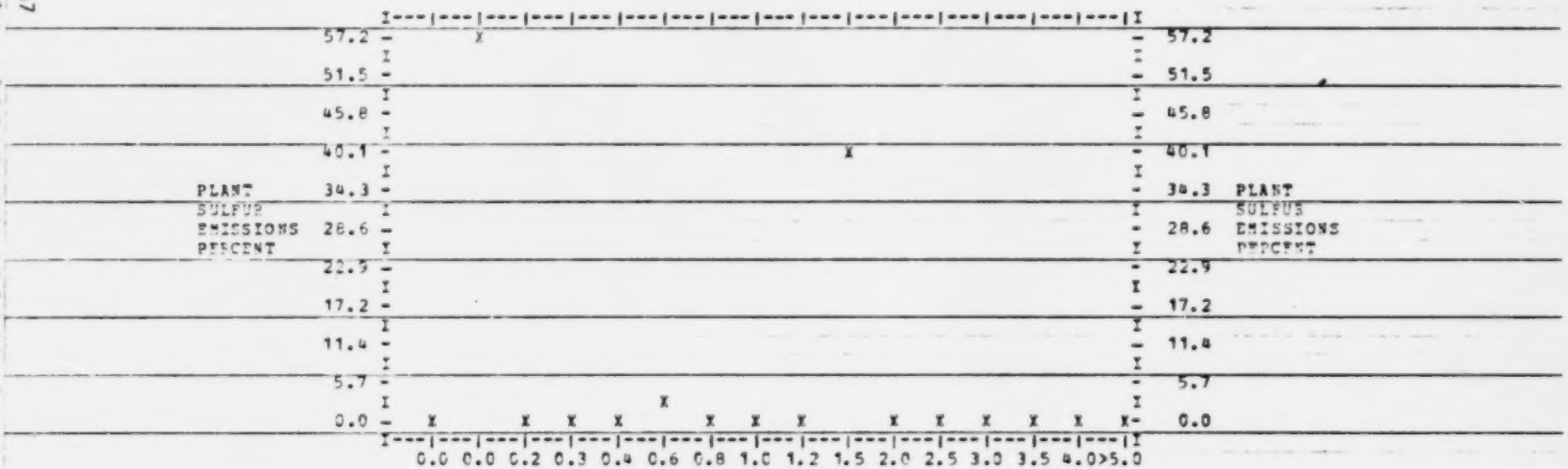
CG5-6

NUMBER OF BOILERS (ALL DATA) = 875
NUMBER OF PLANTS (ALL DATA) = 574

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS

FUEL SULFUR CONTENT DENSITIES





CG5-7

NUMBER OF BOILERS (ALL DATA) = 875
NUMBER OF PLANTS (ALL DATA) = 574

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MMBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	34568.	33.	0.	0.	0.	2.	0.	0.	0.
11-	20	4506.	147.	0.	0.	0.	0.	0.	0.	0.
21-	30	4971.	232.	0.	0.	0.	0.	0.	0.	0.
31-	40	2407.	11215.	0.	0.	0.	0.	0.	0.	0.
41-	50	1284.	0.	0.	0.	0.	0.	0.	0.	0.
51-	60	3262.	0.	0.	0.	0.	0.	0.	0.	0.
61-	70	2255.	0.	0.	0.	0.	0.	0.	0.	0.
71-	80	1434.	311.	0.	0.	0.	0.	0.	0.	0.
81-	90	1611.	0.	0.	0.	0.	0.	0.	0.	0.
91-	100	1596.	46526.	0.	0.	0.	0.	0.	0.	0.
101-	200	18933.	0.	0.	0.	0.	0.	0.	0.	0.
201-	300	4292.	0.	0.	0.	0.	0.	0.	0.	0.
301-	400	2393.	0.	0.	0.	0.	0.	0.	0.	0.
401-	500	13371.	0.	0.	0.	0.	0.	0.	0.	0.
501-	600	2910.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	1181.	0.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	1602.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	168.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		98785.	58464.	0.	0.	0.	2.	0.	0.	0.
CUMUL. TOTALS		98785.	157249.	157249.	157249.	157249.	157252.	157252.	157252.	157252.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	0.	0.	0.	0.	0.	0.	34604.	34604.
11- 20	0.	0.	0.	0.	0.	0.	0.	4653.	39257.
21- 30	0.	0.	0.	0.	0.	0.	0.	5203.	44460.
31- 40	0.	0.	0.	0.	0.	0.	0.	13622.	58083.
41- 50	0.	0.	0.	0.	0.	0.	0.	1264.	59346.
51- 60	0.	0.	0.	0.	0.	0.	0.	3262.	62608.
61- 70	0.	0.	0.	0.	0.	0.	0.	2255.	64863.
71- 80	34.	0.	0.	0.	0.	0.	0.	1779.	66642.
81- 90	0.	0.	0.	0.	0.	0.	0.	1611.	68254.
91- 100	0.	0.	0.	0.	0.	0.	0.	48122.	116376.
101- 200	0.	0.	0.	0.	0.	0.	0.	14993.	131369.
201- 300	0.	0.	0.	0.	0.	0.	0.	4292.	135661.
301- 400	0.	0.	0.	0.	0.	0.	0.	2393.	138054.
401- 500	0.	0.	0.	0.	0.	0.	0.	13371.	151425.
501- 600	0.	0.	0.	0.	0.	0.	0.	2910.	154335.
601- 700	0.	0.	0.	0.	0.	0.	0.	0.	154335.
701- 800	0.	0.	0.	0.	0.	0.	0.	1181.	155516.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	155516.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	155516.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	1602.	157118.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	168.	157286.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
COLUMN TOTALS	34.	0.	0.	0.	0.	0.	0.	157286.	
CUMUL. TOTALS	157286.	157286.	157286.	157286.	157286.	157286.	157286.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.5	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	5857.	15.	0.	0.	0.	0.	0.	0.	0.
1-	10	23545.	2.	0.	0.	0.	2.	0.	0.	0.
11-	20	2127.	147.	0.	0.	0.	0.	0.	0.	0.
21-	30	2821.	182.	0.	0.	0.	0.	0.	0.	0.
31-	40	1403.	0.	0.	0.	0.	0.	0.	0.	0.
41-	50	2329.	0.	0.	0.	0.	0.	0.	0.	0.
51-	60	1788.	0.	0.	0.	0.	0.	0.	0.	0.
61-	70	1219.	0.	0.	0.	0.	0.	0.	0.	0.
71-	80	1087.	0.	0.	0.	0.	0.	0.	0.	0.
81-	90	1731.	0.	0.	0.	0.	0.	0.	0.	0.
91-	100	2611.	0.	0.	0.	0.	0.	0.	0.	0.
101-	200	20590.	311.	0.	0.	0.	0.	0.	0.	0.
201-	300	5108.	521.	0.	0.	0.	0.	0.	0.	0.
301-	400	1577.	57285.	0.	0.	0.	0.	0.	0.	0.
401-	500	4562.	0.	0.	0.	0.	0.	0.	0.	0.
501-	600	230.	0.	0.	0.	0.	0.	0.	0.	0.
601-	700	1311.	0.	0.	0.	0.	0.	0.	0.	0.
701-	800	4936.	0.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	0.	0.	0.
901-	1000	11700.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	1990.	0.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	252.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	60000	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL		157249.	59464.	0.	0.	0.	2.	0.	0.	0.
CUMULATIVE		157249.	157249.	157249.	157249.	157249.	157251.	157251.	157251.	157251.

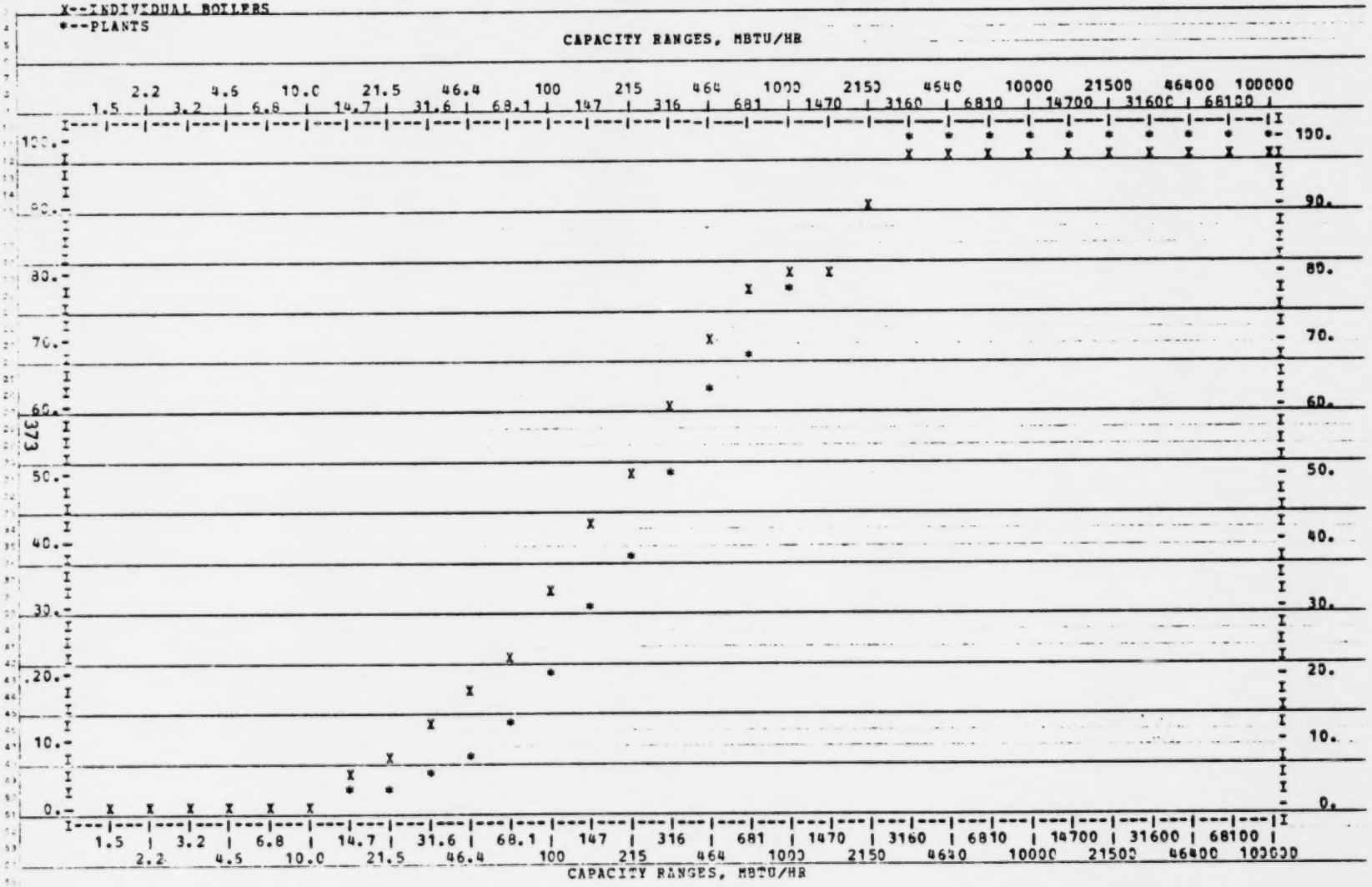
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)								
CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	5872.	31696.
1- 10	0.	0.	0.	0.	0.	0.	0.	23550.	34711.
11- 20	0.	0.	0.	0.	0.	0.	0.	2275.	36113.
21- 30	0.	0.	0.	0.	0.	0.	0.	3014.	38442.
31- 40	0.	0.	0.	0.	0.	0.	0.	1403.	40230.
41- 50	0.	0.	0.	0.	0.	0.	0.	2329.	41449.
51- 60	0.	0.	0.	0.	0.	0.	0.	1788.	42571.
61- 70	0.	0.	0.	0.	0.	0.	0.	1219.	44301.
71- 80	34.	0.	0.	0.	0.	0.	0.	1121.	46913.
81- 90	0.	0.	0.	0.	0.	0.	0.	1731.	67814.
91- 100	0.	0.	0.	0.	0.	0.	0.	2611.	73443.
101- 200	0.	0.	0.	0.	0.	0.	0.	20901.	132305.
201- 300	0.	0.	0.	0.	0.	0.	0.	5629.	136867.
301- 400	0.	0.	0.	0.	0.	0.	0.	58862.	137097.
401- 500	0.	0.	0.	0.	0.	0.	0.	4562.	133408.
501- 600	0.	0.	0.	0.	0.	0.	0.	230.	143344.
601- 700	0.	0.	0.	0.	0.	0.	0.	1311.	143344.
701- 800	0.	0.	0.	0.	0.	0.	0.	4936.	155044.
801- 900	0.	0.	0.	0.	0.	0.	0.	0.	157034.
901- 1000	0.	0.	0.	0.	0.	0.	0.	11700.	157286.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	1990.	157286.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	252.	157286.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	157265.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	157286.
[illegible]	[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	157286.
[illegible]	[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	157286.
[illegible]	[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	157286.
[illegible]	[illegible]	[illegible]	0.	0.	0.	0.	0.	0.	157286.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.	157286.	

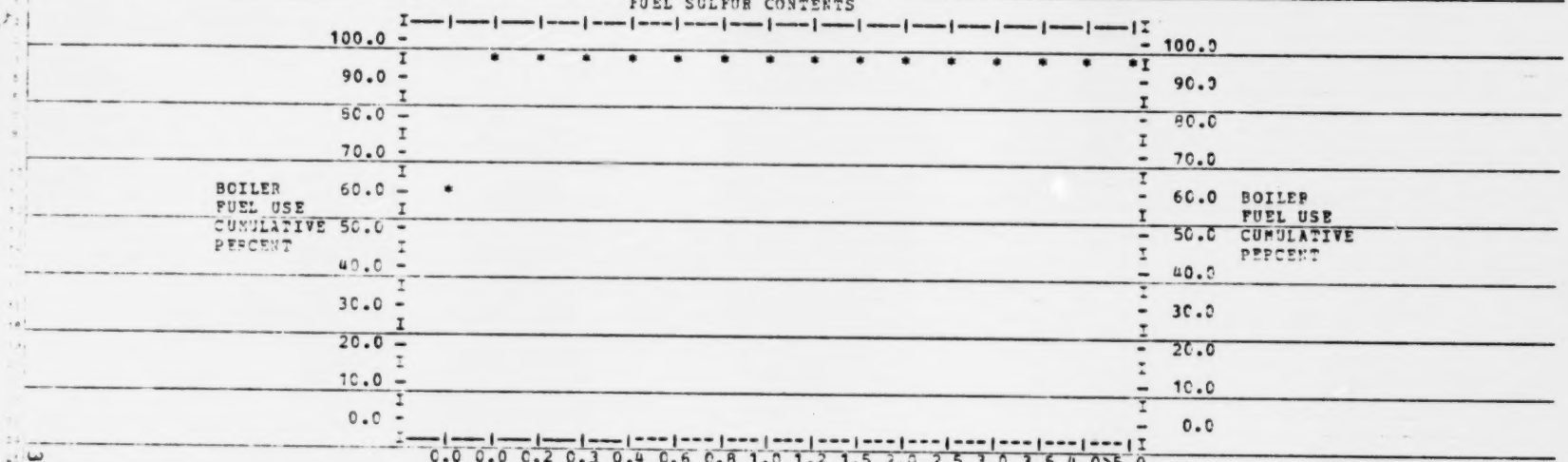
CG6-4

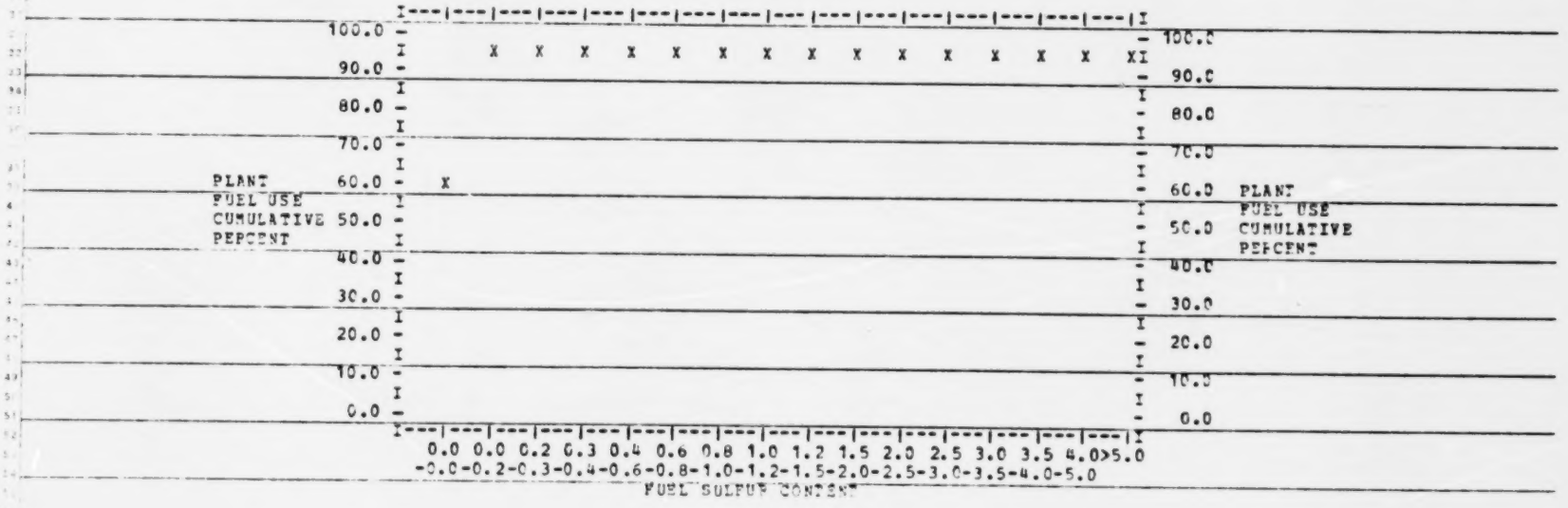
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS



BOILER CAPACITIES (ALL DATA) = 34946.
PLANT CAPACITIES (ALL DATA) = 34946.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENTS

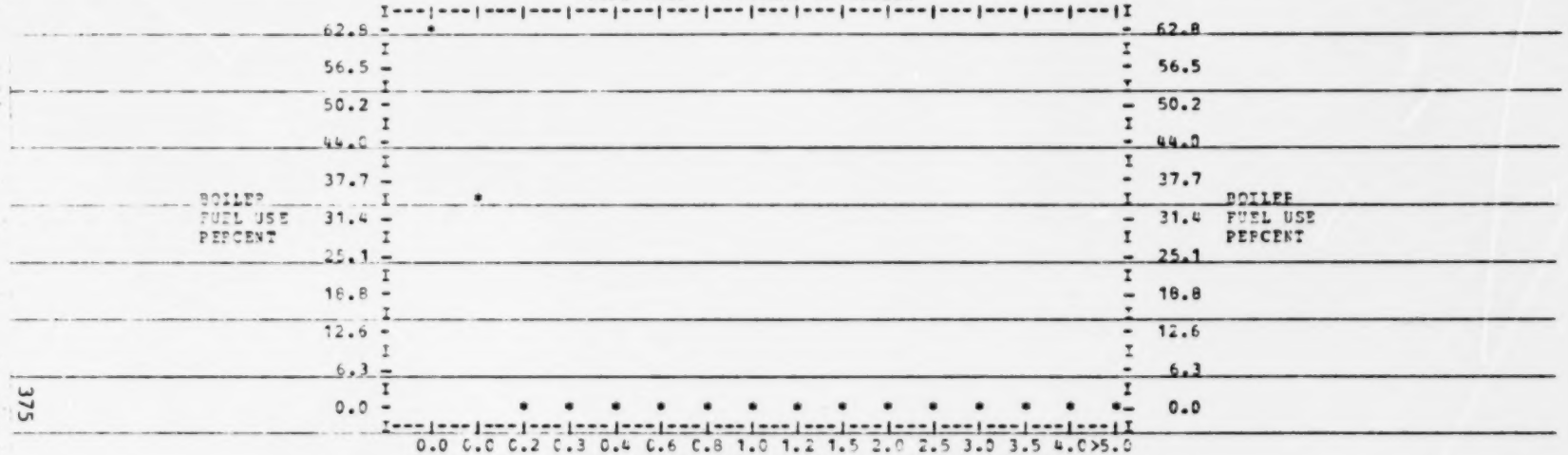


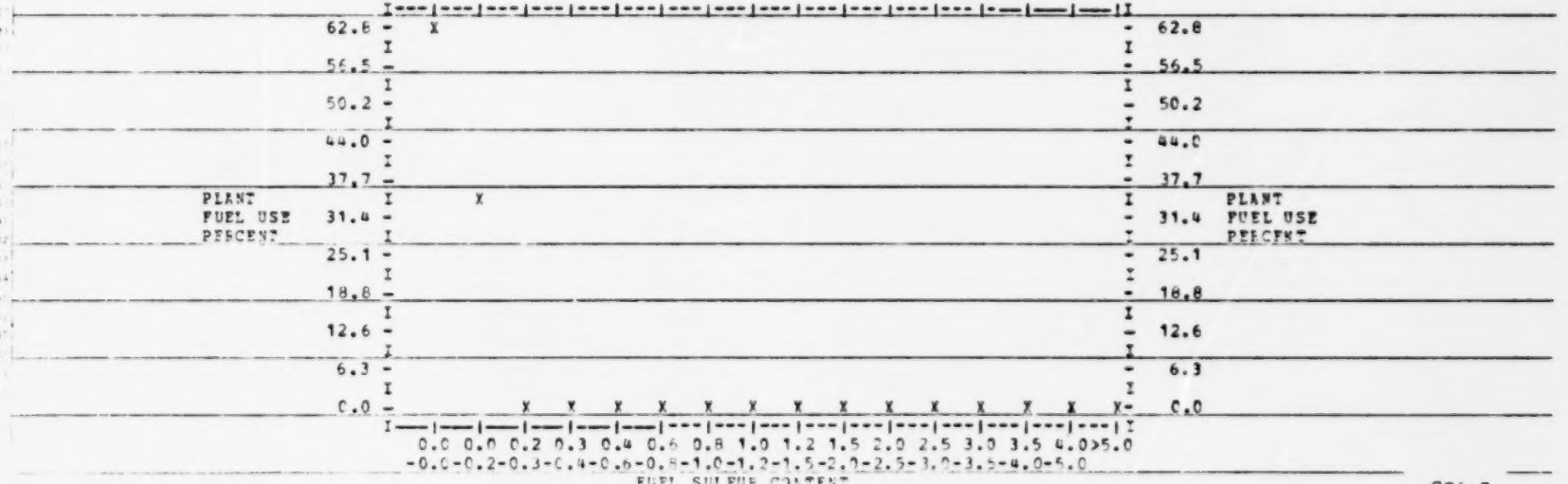


BOILER CAPACITIES (ALL DATA) = 34946.
PLANT CAPACITIES (ALL DATA) = 34946.

BOILER CAPACITIES (ALL DATA) = 34946.
PLANT CAPACITIES (ALL DATA) = 34946.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER POPULATION DATA – COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	EQUAL ZERO	STACK HEIGHTS IN FEET 1- 20	21- 40	41- 60	61- 80	81- 100	101- 120	121- 140	141- 160	161- 180	181- 200	201- 250	251- 300	301- 350	351- 400
EQUAL 0	98	17	15	11	3	2	1	1	0	0	0	1	0	1	0
1- 10	209	19	25	16	7	3	2	3	2	0	1	1	0	0	0
11- 20	28	8	7	6	6	8	2	4	1	2	1	0	0	0	0
21- 30	17	1	6	5	1	1	2	5	0	0	0	1	0	0	0
31- 40	10	2	5	3	0	2	1	2	1	0	0	0	0	0	0
41- 50	4	0	2	3	1	0	1	3	2	1	1	1	0	0	0
51- 60	5	0	2	2	1	0	0	3	2	0	1	2	1	0	0
61- 70	5	0	2	3	0	0	0	3	0	0	0	0	0	0	0
71- 80	6	0	2	2	1	1	1	0	2	0	0	0	1	0	0
81- 90	1	0	2	1	0	0	0	1	1	1	1	0	0	0	0
91- 100	3	1	0	0	0	0	0	1	1	2	0	1	0	0	0
101- 200	10	0	6	5	5	0	3	2	4	3	1	2	1	0	0
201- 300	2	1	2	4	1	1	0	0	1	2	1	1	0	0	0
301- 400	1	1	0	0	0	0	0	1	0	0	1	1	0	0	0
401- 500	1	0	1	0	1	1	0	0	0	1	0	0	0	0	0
501- 600	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0
601- 700	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
701- 800	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
801- 900	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1001- 2000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	402	51	78	62	28	19	13	30	17	12	8	13	3	2	0
CUMUL. TOTALS	0	51	129	191	219	238	251	281	298	310	318	331	334	336	336

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL GAS-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET 401-450	451-500	501-550	551-600	601-650	651-700	701-750	751-800	801-850	851-900	901-950	951-1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	288	288
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	73	361
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	39	400
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	26	426
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	19	445
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	19	464
61- 70	0	0	0	0	0	0	0	0	0	0	0	0	0	13	477
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	16	493
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	8	501
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	9	510
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	42	552
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	16	568
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	5	573
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	5	578
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	3	581
601- 700	0	0	0	0	0	0	0	0	0	0	0	0	0	1	582
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	1	583
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	1	584
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	585
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	2	587
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	588
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	588
COLUMN TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	738	588
CUMUL. TOTALS	336	336	336	336	336	336	336	336	336	336	336	336	336		

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL GAS-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS: EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	1.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.60	1.48	1.35	1.40	1.00	1.10	1.25	2.67	1.50
11-	20	2.33	2.19	13.67	2.20	2.00	1.17	1.00	1.67	1.00
21-	30	0.0	1.60	1.68	1.00	1.00	1.67	1.00	1.50	0.0
31-	40	2.50	1.50	1.67	1.75	2.50	0.0	2.00	0.0	4.00
41-	50	0.0	2.00	3.00	2.71	8.00	1.00	4.50	0.0	0.0
51-	60	0.0	1.33	1.33	3.33	0.0	0.0	1.00	1.00	0.0
61-	70	0.0	2.33	3.40	6.00	1.00	0.0	4.00	0.0	0.0
71-	80	3.50	1.00	2.00	1.00	0.0	0.0	0.0	2.00	0.0
81-	90	0.0	1.00	6.00	2.50	4.00	1.00	1.00	0.0	0.0
91-	100	0.0	1.00	1.50	4.00	0.0	0.0	0.0	0.0	0.0
101-	200	4.00	1.75	2.86	3.40	3.00	4.00	1.00	0.0	1.00
201-	300	2.00	2.50	2.40	2.33	6.50	0.0	0.0	0.0	0.0
301-	400	0.0	2.33	1.00	0.0	4.00	0.0	0.0	0.0	0.0
401-	500	0.0	1.00	3.25	1.00	10.00	0.0	0.0	0.0	0.0
501-	600	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
601-	700	0.0	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0
701-	800	0.0	0.0	1.00	4.00	2.00	0.0	0.0	0.0	0.0
801-	900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
901-	1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1001-	2000	0.0	5.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-	3000	0.0	2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4001-	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		1.85	1.85	2.37	2.12	2.76	1.43	1.59	1.90	1.60
CUMUL. TOTALS		0.0	1.85	2.17	2.15	2.20	2.14	2.11	2.11	2.09

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL GAS-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	0.80-0.89	0.90-0.99	PLANT LOAD FACTORS TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.0	0.0	1.59	0.0	1.67	1.63	0.0	0.0
1- 10	0.0	2.78	1.46	0.0	1.93	1.52	1.46	1.52
11- 20	0.0	1.00	3.27	0.0	1.50	3.20	1.81	1.82
21- 30	1.50	1.33	1.46	0.0	1.50	1.47	1.78	1.79
31- 40	0.0	0.0	1.91	0.0	0.0	1.91	1.79	1.80
41- 50	0.0	0.0	3.12	0.0	2.00	3.06	1.86	1.86
51- 60	0.0	0.0	1.82	0.0	2.00	1.83	1.86	1.86
61- 70	0.0	0.0	3.18	0.0	0.0	3.18	1.90	1.90
71- 80	0.0	0.0	2.10	0.0	0.0	2.10	1.91	1.91
81- 90	0.0	0.0	3.33	0.0	0.0	3.33	1.94	1.94
91- 100	3.00	0.0	2.50	0.0	6.00	2.89	1.96	1.96
101- 200	0.0	2.00	2.63	0.0	1.75	2.55	2.02	2.02
201- 300	0.0	0.0	3.00	0.0	0.0	3.00	2.05	2.04
301- 400	0.0	0.0	2.40	0.0	6.00	3.00	2.05	2.06
401- 500	0.0	0.0	3.25	0.0	0.0	3.25	2.08	2.08
501- 600	0.0	0.0	1.00	0.0	0.0	1.00	2.07	2.07
601- 700	0.0	0.0	2.00	0.0	0.0	2.00	2.07	2.07
701- 800	0.0	0.0	0.00	0.0	0.0	0.00	2.09	2.09
801- 900	0.0	0.0	0.0	0.0	0.0	0.0	2.09	2.09
901- 1000	0.0	0.0	0.0	0.0	3.00	3.00	2.09	2.09
1001- 2000	0.0	0.0	5.00	0.0	0.0	5.00	2.11	2.11
2001- 3000	0.0	0.0	2.00	0.0	0.0	2.00	2.11	2.11
3001- 4000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
4001- 5000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
5001- 6000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
6001- 7000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
7001- 8000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
8001- 9000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
9001- 10000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	2.11	2.11
COLUMN TOTALS	2.00	2.29	2.06	0.0	1.87	1.74		
CUMUL. TOTALS	2.00	2.10	2.10	2.10	2.06			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MMBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	32	0	0	0	0	0	0	0	0
1-	10	50	167	206	145	65	26	34	12	5
11-	20	8	56	70	63	30	16	3	7	5
21-	30	5	41	49	28	14	13	9	0	1
31-	40	2	25	23	17	7	8	6	3	0
41-	50	5	14	22	17	5	4	1	2	1
51-	60	7	15	13	12	7	1	3	0	0
61-	70	0	14	6	8	1	2	0	3	1
71-	80	3	11	9	5	7	2	1	0	0
81-	90	1	8	7	3	1	2	0	0	0
91-	100	4	10	5	3	1	6	1	0	0
101-	200	1	28	14	14	5	4	0	0	0
201-	300	0	6	8	0	1	0	0	0	0
301-	400	0	2	5	0	0	0	0	0	0
401-	500	0	5	3	0	0	0	0	0	0
501-	600	0	3	0	1	0	1	0	0	0
601-	700	0	0	0	1	0	0	0	0	0
701-	800	0	1	0	0	0	0	0	0	0
801-	900	0	1	0	0	0	0	0	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	1	0	0	0	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		119	399	440	317	147	84	58	27	13
CUMUL. TOTALS		0	399	839	1156	1303	1387	1445	1472	1485

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	32	0	101	133	0	0
1-	10	10	5	725	0	35	760	725	760
11-	20	1	1	261	0	7	268	986	1028
21-	30	0	1	161	0	2	163	1147	1191
31-	40	2	0	91	0	3	94	1238	1285
41-	50	1	1	73	0	0	73	1311	1358
51-	60	0	1	54	0	2	56	1365	1414
61-	70	0	0	35	0	0	35	1400	1449
71-	80	0	0	38	0	0	38	1438	1487
81-	90	0	0	22	0	0	22	1460	1509
91-	100	0	0	30	0	0	30	1490	1539
101-	200	1	0	66	0	1	67	1556	1606
201-	300	0	0	17	0	0	17	1573	1623
301-	400	0	0	7	0	0	7	1580	1630
401-	500	0	0	8	0	0	8	1588	1638
501-	600	0	0	4	0	0	4	1592	1642
601-	700	0	0	1	0	0	1	1593	1643
701-	800	0	0	1	0	0	1	1594	1644
801-	900	0	0	1	0	0	1	1595	1645
901-	1000	0	0	0	0	0	0	1595	1645
1001-	2000	0	0	1	0	0	1	1596	1646
2001-	3000	0	0	0	0	0	0	1596	1646
3001-	4000	0	0	0	0	0	0	1596	1646
4001-	5000	0	0	0	0	0	0	1596	1646
5001-	6000	0	0	0	0	0	0	1596	1646
6001-	7000	0	0	0	0	0	0	1596	1646
7001-	8000	0	0	0	0	0	0	1596	1646
8001-	9000	0	0	0	0	0	0	1596	1646
9001-	10000	0	0	0	0	0	0	1596	1646
10001-100000		0	0	0	0	0	0	1596	1646
COLUMN TOTALS		15	9	1628	0	151	1779		
CUMUL. TOTALS		1580	1589	1598	1598	1660			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	15	0	0	0	0	0	0	0	0
1-	10	4	86	100	49	25	13	14	6	4
11-	20	2	18	34	23	19	6	3	2	3
21-	30	1	13	29	10	10	3	4	1	1
31-	40	1	18	20	11	2	3	1	1	0
41-	50	0	18	17	14	5	4	2	1	1
51-	60	0	8	9	12	4	2	5	1	0
61-	70	0	6	8	5	1	1	0	0	1
71-	80	2	7	11	3	1	0	2	0	0
81-	90	0	0	5	4	1	1	0	0	0
91-	100	1	6	4	4	2	0	1	0	0
101-	200	3	21	15	16	6	5	0	1	1
201-	300	1	8	7	2	3	2	0	0	0
301-	400	0	3	3	2	0	1	0	0	0
401-	500	1	4	6	0	0	0	0	0	0
501-	600	0	2	1	1	1	0	0	0	0
601-	700	0	0	0	2	0	0	0	0	0
701-	800	0	3	0	0	0	0	0	0	0
801-	900	0	1	0	1	0	0	0	0	0
901-	1000	0	0	1	0	0	0	0	0	0
1001-	2000	0	1	1	0	0	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		31	231	272	159	82	41	34	13	11
CUMUL. TOTALS		0	231	503	662	744	785	819	832	843

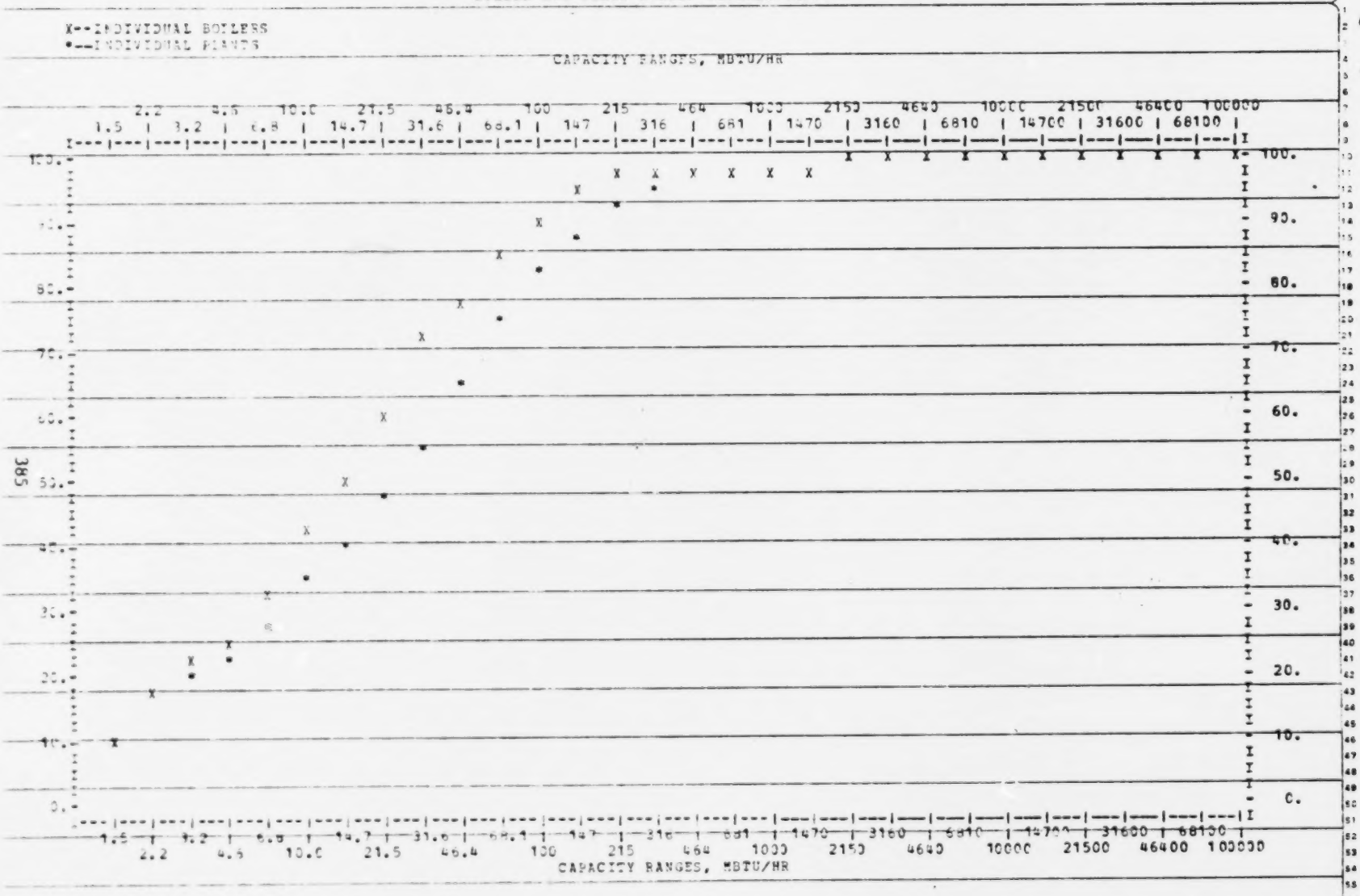
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MILLION BTU/HR		0.80-0.84	0.90-0.94	PLANT LOAD FACTORS TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0	0	15	0	70	85	0	0
1-	10	1	2	307	0	21	328	307	328
11-	20	1	1	109	0	3	112	416	440
21-	30	0	1	73	0	4	77	489	517
31-	40	0	0	59	0	5	64	548	581
41-	50	1	1	64	0	0	64	612	645
51-	60	0	0	41	0	2	43	653	688
61-	70	1	0	25	0	0	25	678	713
71-	80	0	0	26	0	0	26	704	739
81-	90	0	0	17	0	0	17	721	756
91-	100	0	0	14	0	1	19	739	775
101-	200	0	0	73	0	1	73	811	848
201-	300	0	0	23	0	0	23	834	871
301-	400	0	0	9	0	0	9	843	880
401-	500	0	0	13	0	0	13	856	893
501-	600	0	0	5	0	0	5	861	898
601-	700	0	0	2	0	0	2	863	900
701-	800	0	0	3	0	0	3	866	903
801-	900	0	0	2	0	0	2	868	905
901-	1000	0	0	1	0	0	1	869	906
1001-	2000	0	0	2	0	0	2	871	908
2001-	3000	0	0	0	0	0	0	871	908
3001-	4000	0	0	0	0	0	0	871	908
4001-	5000	0	0	0	0	0	0	871	908
5001-	6000	0	0	0	0	0	0	871	908
6001-	7000	0	0	0	0	0	0	871	908
7001-	8000	0	0	0	0	0	0	871	908
8001-	9000	0	0	0	0	0	0	871	908
9001-	10000	0	0	0	0	0	0	871	908
10001-	20000	0	0	0	0	0	0	871	908
20001-	30000	0	0	0	0	0	0	871	908
30001-	40000	0	0	0	0	0	0	871	908
40001-	50000	0	0	0	0	0	0	871	908
50001-	60000	0	0	0	0	0	0	871	908
COLUMN TOTALS		7	5	886	0	107	993		
CUMTOT TOTALS		850	855	855	855	962			

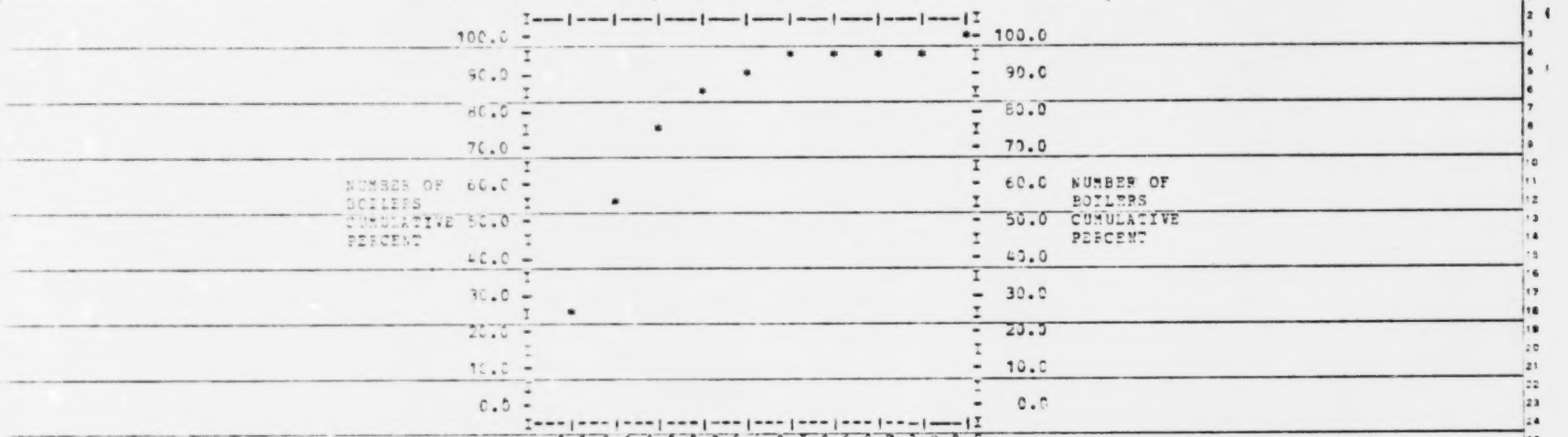
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

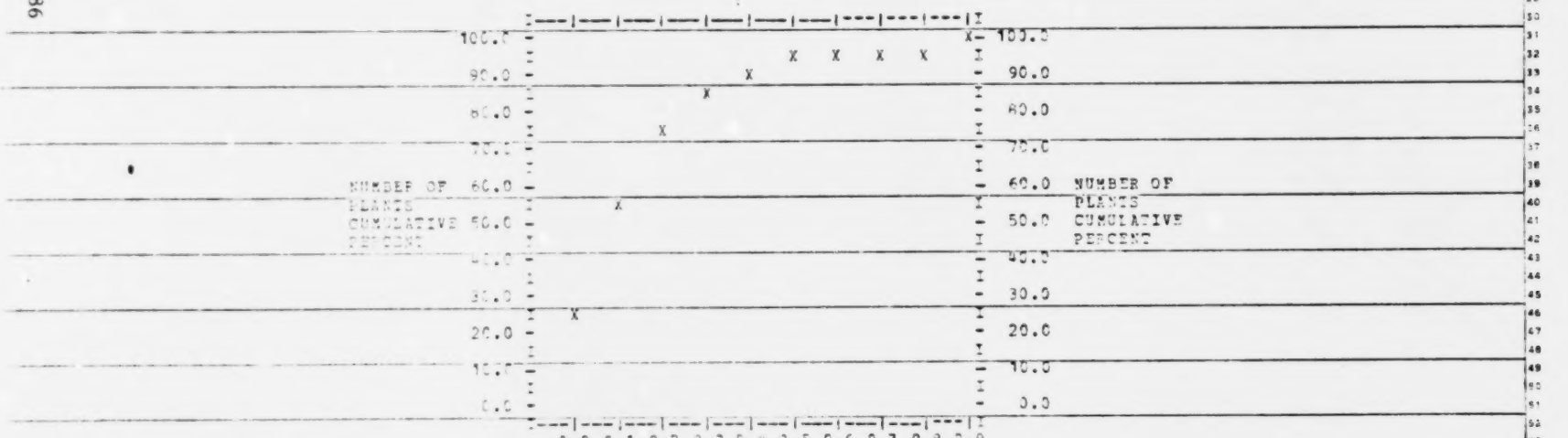
X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



NUMBER OF BOILERS (ALL DATA) = 1779 NUMBER OF BOILERS (RELIABLE DATA) = 1509
NUMBER OF PLANTS (ALL DATA) = 993 NUMBER OF PLANTS (RELIABLE DATA) = 955

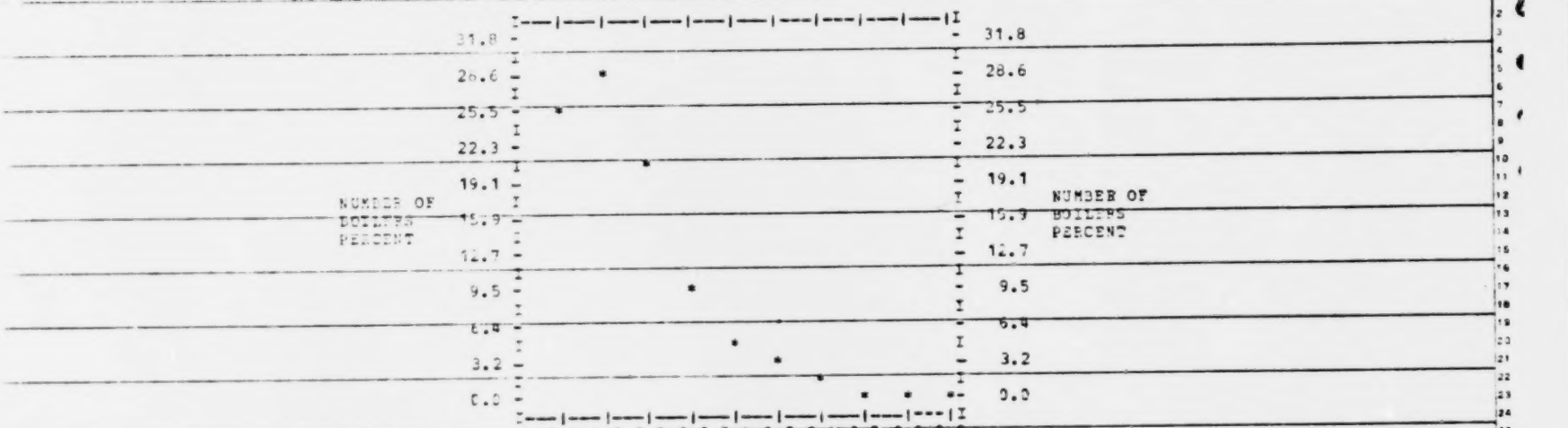
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTORS

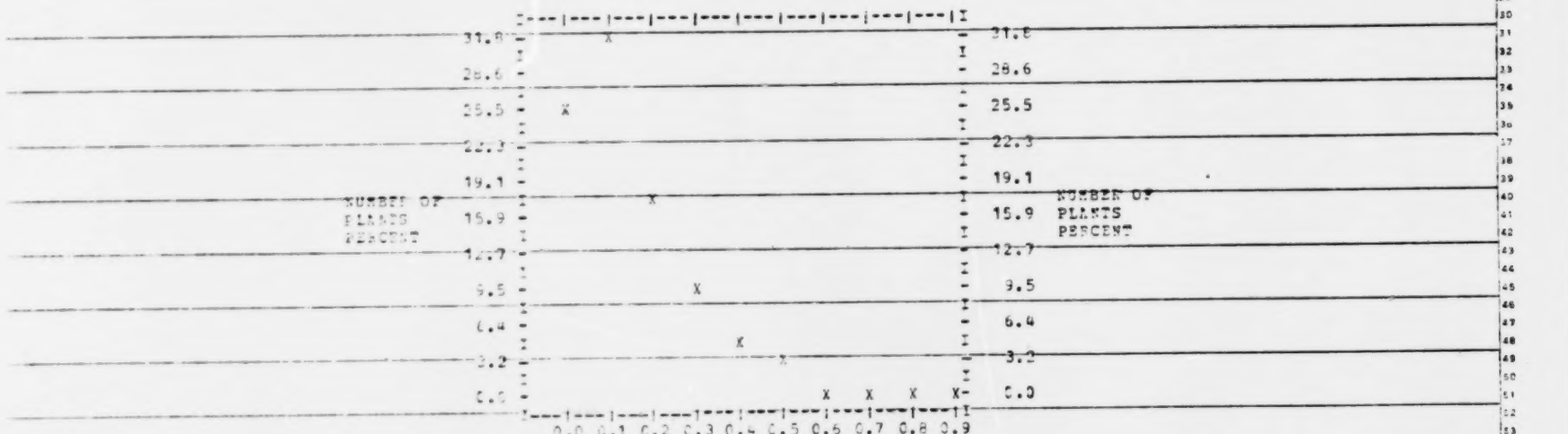




NUMBER OF BOILERS (ALL DATA) = 1773 NUMBER OF BOILERS (REPORTABLE DATA) = 1509
NUMBER OF PLANTS (ALL DATA) = 993 NUMBER OF PLANTS (REPORTABLE DATA) = 855

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTOR DENSITIES





NUMBER OF BOILERS (ALL DATA) = 1274 NUMBER OF BOILERS (RELIABLE DATA) = 1009
NUMBER OF PLANTS (ALL DATA) = 893 NUMBER OF PLANTS (RELIABLE DATA) = 855

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	151.	726.	858.	556.	259.	76.	144.	46.	18.
11-	20	148.	822.	1085.	926.	456.	252.	41.	122.	80.
21-	30	138.	1054.	1256.	710.	364.	330.	238.	0.	23.
31-	40	70.	823.	814.	617.	225.	267.	213.	106.	0.
41-	50	280.	450.	1012.	767.	207.	178.	50.	100.	49.
51-	60	412.	554.	727.	677.	390.	51.	158.	0.	0.
61-	70	0.	940.	399.	533.	68.	132.	0.	189.	67.
71-	80	222.	822.	683.	368.	535.	160.	72.	0.	0.
81-	90	85.	691.	600.	254.	88.	173.	0.	0.	0.
91-	100	336.	802.	481.	286.	95.	588.	100.	0.	0.
101-	200	165.	3235.	1810.	1856.	1144.	578.	0.	0.	0.
201-	300	0.	1986.	2005.	0.	262.	0.	0.	0.	0.
301-	400	0.	690.	1815.	0.	0.	0.	0.	0.	0.
401-	500	0.	2192.	1270.	0.	0.	0.	0.	0.	0.
501-	600	0.	1640.	0.	600.	0.	0.	0.	0.	0.
601-	700	0.	0.	0.	672.	0.	0.	0.	0.	0.
701-	800	0.	735.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	865.	0.	0.	0.	0.	0.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	1904.	0.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		2017.	21332.	14965.	8842.	4109.	2785.	1016.	563.	237.
CUMUL. TOTALS		0.	21332.	36297.	45139.	49248.	52033.	53049.	53612.	53849.

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		BOILER LOAD FACTORS 0.80- 0.89	0.90- 0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	POW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	40.	20.	2889.	0.	105.	2994.	2869.	2994.
11-	20	13.	17.	3982.	0.	104.	4066.	6851.	7060.
21-	30	0.	27.	4140.	0.	50.	4190.	10991.	11250.
31-	40	70.	0.	3205.	0.	97.	3302.	14196.	14552.
41-	50	42.	50.	3375.	0.	0.	3375.	17571.	17927.
51-	60	0.	60.	3029.	0.	109.	3138.	20600.	21065.
61-	70	0.	0.	2328.	0.	0.	2328.	22928.	23393.
71-	80	0.	0.	2862.	0.	0.	2862.	25790.	26255.
81-	90	0.	0.	1891.	0.	0.	1891.	27681.	28146.
91-	100	0.	0.	2928.	0.	0.	2928.	30609.	31074.
101-	200	120.	0.	9058.	0.	120.	9178.	39667.	40252.
201-	300	0.	0.	4255.	0.	0.	4255.	43922.	44507.
301-	400	0.	0.	2505.	0.	0.	2505.	46427.	47012.
401-	500	0.	0.	3462.	0.	0.	3462.	49889.	50474.
501-	600	0.	0.	2240.	0.	0.	2240.	52129.	52714.
601-	700	0.	0.	672.	0.	0.	672.	52801.	53386.
701-	800	0.	0.	735.	0.	0.	735.	53536.	54121.
801-	900	0.	0.	885.	0.	0.	885.	54421.	55006.
901-	1000	0.	0.	0.	0.	0.	0.	54421.	55006.
1001-	2000	0.	0.	1904.	0.	0.	1904.	56325.	56910.
2001-	3000	0.	0.	0.	0.	0.	0.	56325.	56910.
3001-	4000	0.	0.	0.	0.	0.	0.	56325.	56910.
4001-	5000	0.	0.	0.	0.	0.	0.	56325.	56910.
5001-	6000	0.	0.	0.	0.	0.	0.	56325.	56910.
6001-	7000	0.	0.	0.	0.	0.	0.	56325.	56910.
7001-	8000	0.	0.	0.	0.	0.	0.	56325.	56910.
8001-	9000	0.	0.	0.	0.	0.	0.	56325.	56910.
9001-	10000	0.	0.	0.	0.	0.	0.	56325.	56910.
10001-	100000	0.	0.	0.	0.	0.	0.	56325.	56910.
COLUMN TOTALS		285.	174.	56325.	0.	585.	56910.		
CUMUL. TOTALS		54134.	54308.	54308.	54308.	54893.			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS EQUAL 0.00	0.01- 0.09	0.10- 0.19	0.20- 0.29	0.30- 0.39	0.40- 0.49	0.50- 0.59	0.60- 0.69	0.70- 0.79
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	10.	300.	342.	181.	112.	56.	72.	9.	17.
11-	20	33.	215.	533.	349.	288.	94.	50.	33.	48.
21-	30	21.	346.	708.	247.	259.	87.	99.	30.	23.
31-	40	34.	630.	703.	395.	70.	114.	102.	35.	0.
41-	50	0.	826.	773.	652.	227.	182.	95.	50.	49.
51-	60	0.	448.	522.	685.	223.	103.	269.	57.	0.
61-	70	0.	560.	532.	333.	66.	62.	0.	0.	67.
71-	80	152.	529.	834.	225.	75.	0.	148.	0.	0.
81-	90	0.	523.	432.	335.	88.	88.	0.	0.	0.
91-	100	100.	574.	381.	381.	191.	0.	100.	0.	0.
101-	200	[illegible]	[illegible]	2312.	2247.	1234.	772.	0.	169.	155.
201-	300	292.	2012.	1764.	501.	751.	588.	0.	0.	0.
301-	400	0.	991.	1089.	671.	0.	320.	0.	0.	0.
401-	500	457.	2636.	2588.	0.	0.	0.	0.	0.	0.
501-	600	0.	1187.	529.	600.	576.	0.	0.	0.	0.
601-	700	0.	0.	0.	1308.	0.	0.	0.	0.	0.
701-	800	0.	2207.	0.	0.	0.	0.	0.	0.	0.
801-	900	0.	885.	0.	861.	0.	0.	0.	0.	0.
901-	1000	0.	0.	972.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	1904.	1193.	0.	0.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		1607.	19843.	16207.	9971.	4160.	2466.	935.	403.	359.
CUMUL. TOTALS		0.	19843.	36050.	46021.	50181.	52647.	53582.	53985.	54344.

C02-3

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT LOAD FACTOR AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND LOAD FACTOR RANGES

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	17.	14.	1130.	0.	84.	1214.	1130.	1214.
11- 20	11.	17.	1671.	0.	39.	1710.	2801.	2924.
21- 30	0.	27.	1847.	0.	98.	1945.	4648.	4869.
31- 40	0.	0.	2083.	0.	167.	2250.	6731.	7119.
41- 50	42.	50.	2946.	0.	0.	2946.	9677.	10065.
51- 60	0.	0.	2307.	0.	109.	2416.	11984.	12481.
61- 70	70.	0.	1670.	0.	0.	1670.	13654.	14151.
71- 80	0.	0.	1963.	0.	0.	1963.	15617.	16114.
81- 90	0.	0.	1466.	0.	0.	1466.	17083.	17580.
91- 100	0.	0.	1727.	0.	94.	1821.	18810.	19401.
101- 200	0.	0.	[illegible]	0.	120.	10627.	[illegible]	[illegible]
201- 300	0.	0.	5908.	0.	0.	5908.	35225.	35936.
301- 400	0.	0.	3071.	0.	0.	3071.	38296.	39007.
401- 500	0.	0.	5681.	0.	0.	5681.	43977.	44688.
501- 600	0.	0.	2892.	0.	0.	2892.	46869.	47580.
601- 700	0.	0.	1308.	0.	0.	1308.	48177.	48888.
701- 800	0.	0.	2207.	0.	0.	2207.	50384.	51095.
801- 900	0.	0.	1746.	0.	0.	1746.	52130.	52841.
901- 1000	0.	0.	972.	0.	0.	972.	53102.	53813.
1001- 2000	0.	0.	3097.	0.	0.	3097.	56199.	56910.
2001- 3000	0.	0.	0.	0.	0.	0.	56199.	56910.
3001- 4000	0.	0.	0.	0.	0.	0.	56199.	56910.
4001- 5000	0.	0.	0.	0.	0.	0.	56199.	56910.
5001- 6000	0.	0.	0.	0.	0.	0.	56199.	56910.
6001- 7000	0.	0.	0.	0.	0.	0.	56199.	56910.
7001- 8000	0.	0.	0.	0.	0.	0.	56199.	56910.
8001- 9000	0.	0.	0.	0.	0.	0.	56199.	56910.
9001- 10000	0.	0.	0.	0.	0.	0.	56199.	56910.
10001- 20000	0.	0.	0.	0.	0.	0.	56199.	56910.
20001- 30000	0.	0.	0.	0.	0.	0.	56199.	56910.
30001- 40000	0.	0.	0.	0.	0.	0.	56199.	56910.
40001- 50000	0.	0.	0.	0.	0.	0.	56199.	56910.
50001-100000	0.	0.	0.	0.	0.	0.	56199.	56910.
COLUMN TOTALS	140.	108.	56199.	0.	711.	56910.		
CUMUL. TOTALS	54484.	54592.	54592.	54592.	55303.			

BOILER CUMULATIVE DIST. - COMMERCIAL/INSTITUTIONAL BOILERS
ALL GAS-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

A---COMMERCIAL BOILERS
*---PLANTS

CAPACITY RANGES, MBTU/HR

1.5	2.2	3.2	4.6	6.8	10.0	14.7	21.5	31.6	46.4	68.1	100	147	215	316	464	681	1000	1470	2150	3160	4640	6810	10000	14700	21500	31600	46400	68100	100000

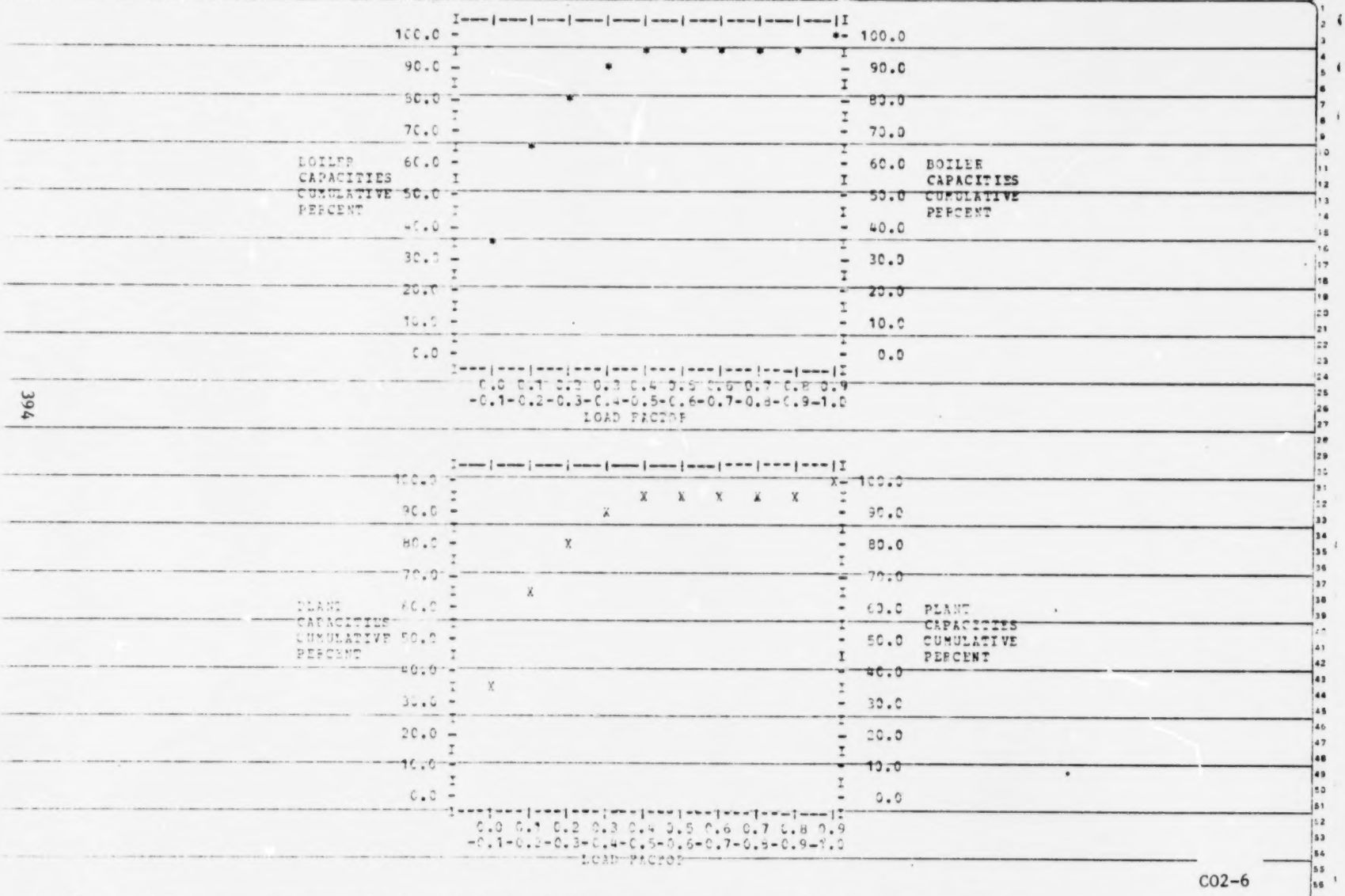
100.
90.
80.
70.
60.
50.
40.
30.
20.
10.
0.

CAPACITY RANGES, MBTU/HR

BOILER CAPACITIES (ALL DATA) = 56910. BOILER CAPACITIES (RELIABLE DATA) = 54308.
PLANT CAPACITIES (ALL DATA) = 56970. PLANT CAPACITIES (RELIABLE DATA) = 54592.

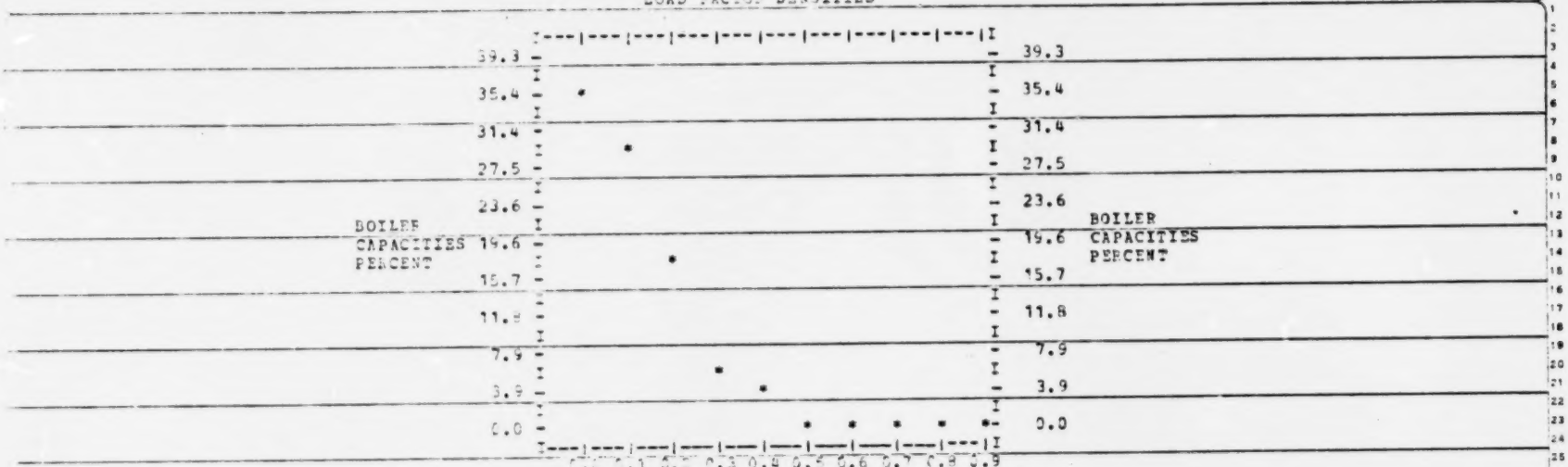
CO2-5

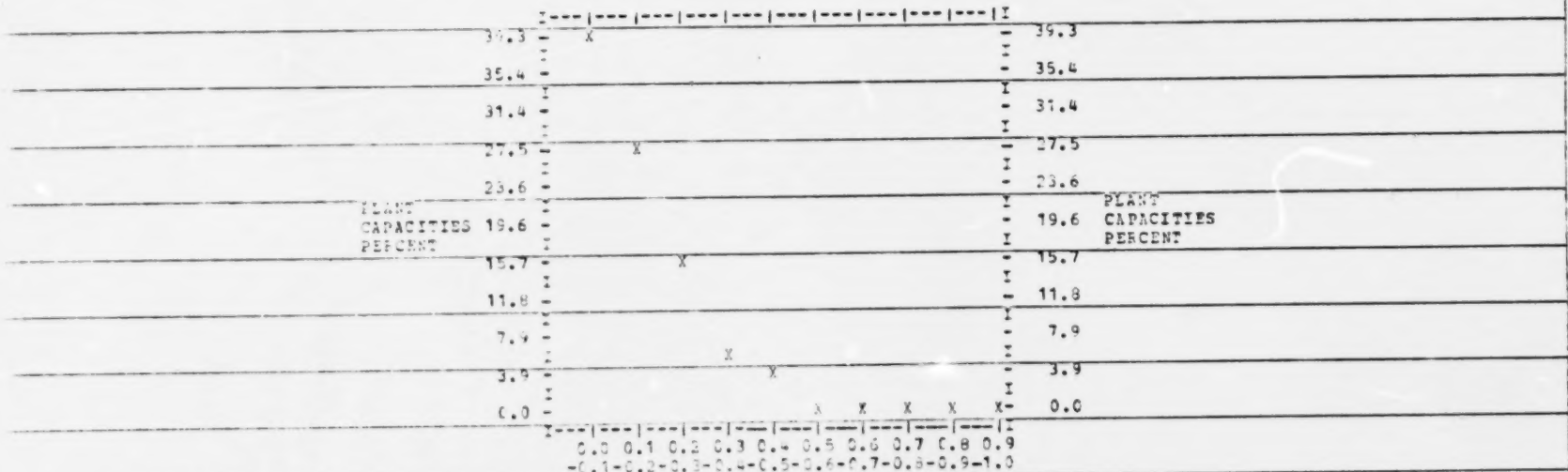
BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTORS



BOILER CAPACITIES (ALL DATA) = 5e910. BOILER CAPACITIES (RELIABLE DATA) = 5e908.
PLANT CAPACITIES (ALL DATA) = 5e910. PLANT CAPACITIES (RELIABLE DATA) = 5e592.

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
LOAD FACTOR DENSITIES





CO2-7

BOILER CAPACITIES (ALL DATA) = 56910. BOILER CAPACITIES (RELIABLE DATA) = 54308.
PLANT CAPACITIES (ALL DATA) = 56910. PLANT CAPACITIES (RELIABLE DATA) = 54592.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY METRIC/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	34	7	32	14	15	4	11	1	0
1-	10	61	35	104	66	49	58	168	20	47
11-	20	9	10	13	2	7	18	66	7	21
21-	30	7	2	9	2	7	10	39	3	12
31-	40	5	3	3	1	4	7	23	2	7
41-	50	5	1	0	1	4	2	17	1	5
51-	60	7	0	1	0	1	4	4	1	8
61-	70	0	2	1	4	0	2	11	0	1
71-	80	3	3	2	0	0	0	4	0	3
81-	90	1	1	1	0	0	1	4	0	2
91-	100	4	0	2	2	1	1	1	0	1
101-	200	3	5	4	1	4	6	20	0	3
201-	300	1	1	4	0	2	0	1	0	1
301-	400	0	0	0	0	0	4	0	0	0
401-	500	0	1	1	0	0	0	4	0	0
501-	600	0	1	0	0	2	0	0	0	0
601-	700	0	0	0	0	0	0	1	0	0
701-	800	0	0	0	0	0	0	1	0	0
801-	900	0	0	0	0	0	0	1	0	0
901-	1000	0	0	0	0	0	0	0	0	0
1001-	2000	0	0	0	0	1	0	0	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
TOTAL		140	72	177	93	97	126	376	45	111
CUMUL.		140	212	389	482	579	705	1081	1126	1237

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF BOILERS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	9	4	2	0	0	0	0	133	133
1-	10	88	60	7	1	0	0	0	760	893
11-	20	62	37	4	1	0	0	1	268	1161
21-	30	41	25	5	1	0	0	0	163	1324
31-	40	21	9	6	3	0	0	0	94	1418
41-	50	14	18	4	1	0	0	0	73	1491
51-	60	18	10	0	2	0	0	0	56	1547
61-	70	5	5	3	1	0	0	0	35	1582
71-	80	3	5	5	1	0	0	0	38	1620
81-	90	7	4	1	0	0	0	0	22	1642
91-	100	8	5	3	2	0	0	0	30	1672
101-	200	3	14	3	1	0	0	0	67	1739
201-	300	4	3	0	0	0	0	0	17	1756
301-	400	1	1	0	1	0	0	0	7	1763
401-	500	0	1	1	0	0	0	0	8	1771
501-	600	1	0	0	0	0	0	0	4	1775
601-	700	0	0	0	0	0	0	0	1	1776
701-	800	0	0	0	0	0	0	0	1	1777
801-	900	0	0	0	0	0	0	0	1	1778
901-	1000	0	0	0	0	0	0	0	0	1778
1001-	2000	0	0	0	0	0	0	0	1	1779
2001-	3000	0	0	0	0	0	0	0	0	1779
3001-	4000	0	0	0	0	0	0	0	0	1779
4001-	5000	0	0	0	0	0	0	0	0	1779
5001-	6000	0	0	0	0	0	0	0	0	1779
6001-	7000	0	0	0	0	0	0	0	0	1779
7001-	8000	0	0	0	0	0	0	0	0	1779
8001-	9000	0	0	0	0	0	0	0	0	1779
9001-	10000	0	0	0	0	0	0	0	0	1779
10001-	100000	0	0	0	0	0	0	0	0	1779
COLUMN TOTALS		281	201	44	15	0	0	1	1779	
CUMUL. TOTALS		1518	1719	1763	1778	1778	1778	1779		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	17	4	20	8	14	4	7	1	0
1-	10	10	6	58	48	36	30	72	1	12
11-	20	2	5	7	2	3	3	27	4	9
21-	30	1	1	3	0	3	9	21	0	4
31-	40	2	3	4	0	4	2	14	2	6
41-	50	1	1	4	1	3	4	12	0	5
51-	60	0	0	1	0	1	3	11	1	3
61-	70	0	1	0	0	0	2	2	0	0
71-	80	3	1	1	0	1	0	2	0	2
81-	90	0	0	1	0	1	0	4	0	2
91-	100	1	0	0	2	0	2	1	0	1
101-	200	4	3	2	3	4	4	24	1	4
201-	300	1	1	0	1	1	2	6	0	3
301-	400	0	0	1	0	0	1	1	0	1
401-	500	2	1	1	0	0	2	4	0	0
501-	600	0	0	0	0	2	0	1	0	1
601-	700	0	0	0	0	0	0	1	0	1
701-	800	0	1	0	0	0	0	1	0	0
801-	900	0	0	0	0	0	0	1	1	0
901-	1000	0	0	1	0	0	0	0	0	0
1001-	2000	0	0	0	0	1	0	1	0	0
2001-	3000	0	0	0	0	0	0	0	0	0
3001-	4000	0	0	0	0	0	0	0	0	0
4001-	5000	0	0	0	0	0	0	0	0	0
5001-	6000	0	0	0	0	0	0	0	0	0
6001-	7000	0	0	0	0	0	0	0	0	0
7001-	8000	0	0	0	0	0	0	0	0	0
8001-	9000	0	0	0	0	0	0	0	0	0
9001-	10000	0	0	0	0	0	0	0	0	0
10001-	20000	0	0	0	0	0	0	0	0	0
20001-	30000	0	0	0	0	0	0	0	0	0
30001-	40000	0	0	0	0	0	0	0	0	0
40001-	50000	0	0	0	0	0	0	0	0	0
50001-	100000	0	0	0	0	0	0	0	0	0
COLUMN TOTALS		44	28	104	65	74	68	211	11	54
CUMUL. TOTALS		44	72	176	241	315	383	594	605	659

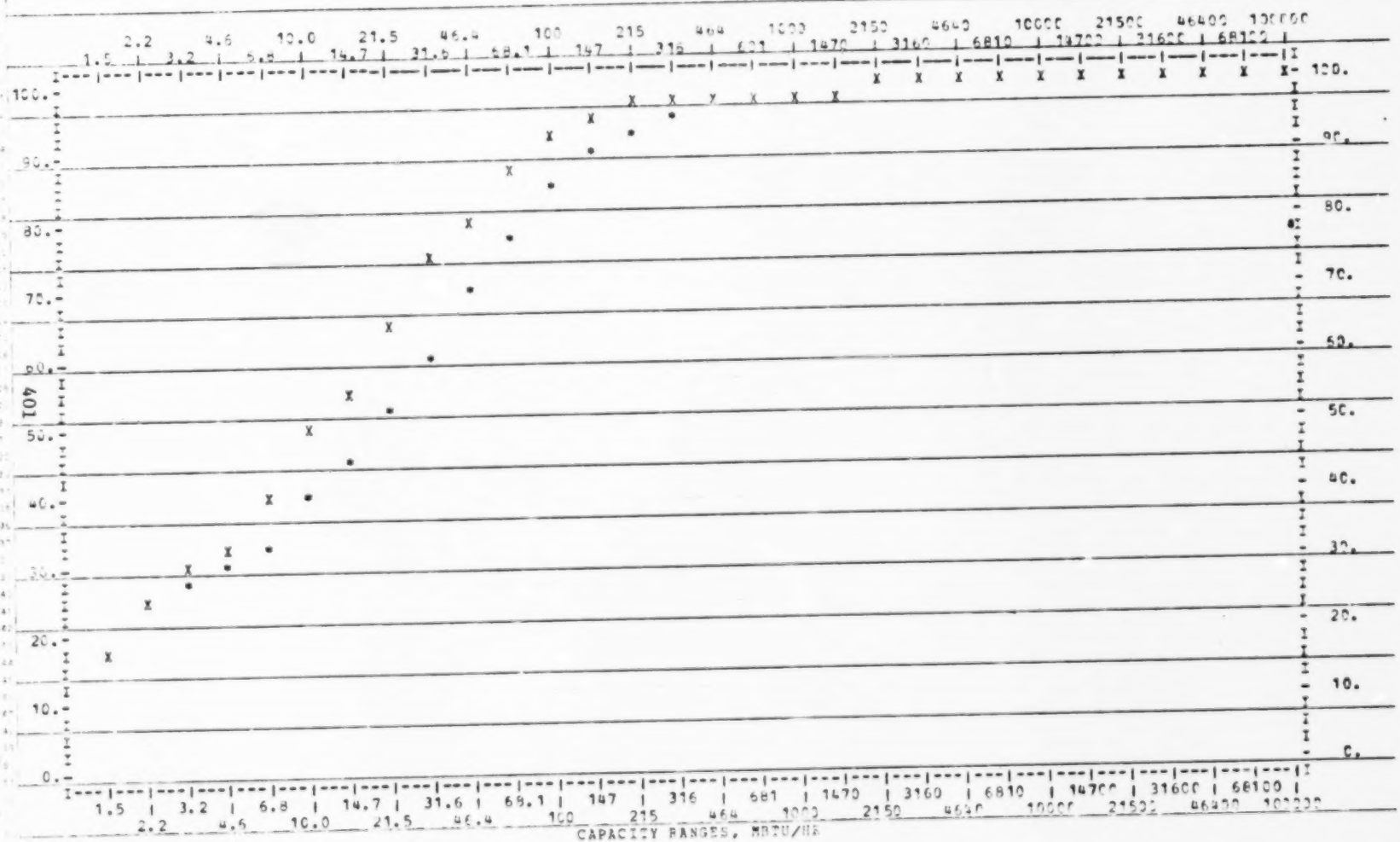
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF PLANTS
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	7	2	1	0	0	0	0	85	85
1-	10	18	32	5	0	0	0	0	328	413
11-	20	22	26	1	1	0	0	0	112	525
21-	30	14	19	3	0	0	0	0	77	602
31-	40	14	8	3	2	0	0	0	64	666
41-	50	14	14	4	1	0	0	0	64	730
51-	60	13	8	0	2	0	0	0	43	773
61-	70	6	8	5	1	0	0	0	25	798
71-	80	6	5	3	1	0	0	0	20	818
81-	90	4	4	1	0	0	0	0	17	841
91-	100	5	5	2	0	0	0	1	19	860
101-	200	7	13	3	1	0	0	0	73	933
201-	300	6	3	0	1	0	0	0	23	956
301-	400	2	1	1	1	0	0	0	9	965
401-	500	1	1	1	0	0	0	0	13	978
501-	600	0	1	0	0	0	0	0	5	983
601-	700	0	0	0	0	0	0	0	2	985
701-	800	1	0	0	0	0	0	0	2	988
801-	900	0	0	0	0	0	0	0	2	990
901-	1000	0	0	0	0	0	0	0	1	991
1001-	2000	0	0	0	0	0	0	0	2	993
2001-	3000	0	0	0	0	0	0	0	0	993
3001-	4000	0	0	0	0	0	0	0	0	993
4001-	5000	0	0	0	0	0	0	0	0	993
5001-	6000	0	0	0	0	0	0	0	0	993
6001-	7000	0	0	0	0	0	0	0	0	993
7001-	8000	0	0	0	0	0	0	0	0	993
8001-	9000	0	0	0	0	0	0	0	0	993
9001-	10000	0	0	0	0	0	0	0	0	993
10001-	20000	0	0	0	0	0	0	0	0	993
20001-	30000	0	0	0	0	0	0	0	0	993
30001-	40000	0	0	0	0	0	0	0	0	993
40001-	50000	0	0	0	0	0	0	0	0	993
50001-	100000	0	0	0	0	0	0	0	0	993
COLUMN TOTALS		140	159	33	11	0	0	0	993	
CUMCL. TOTALS		799	949	982	993	993	993	993		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS



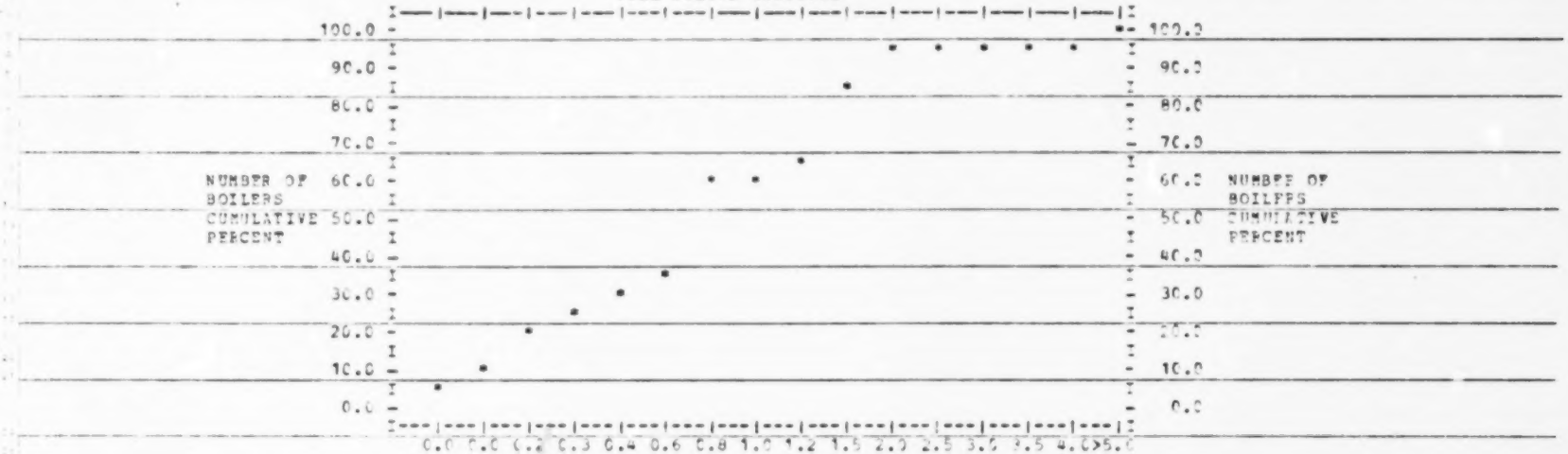
NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

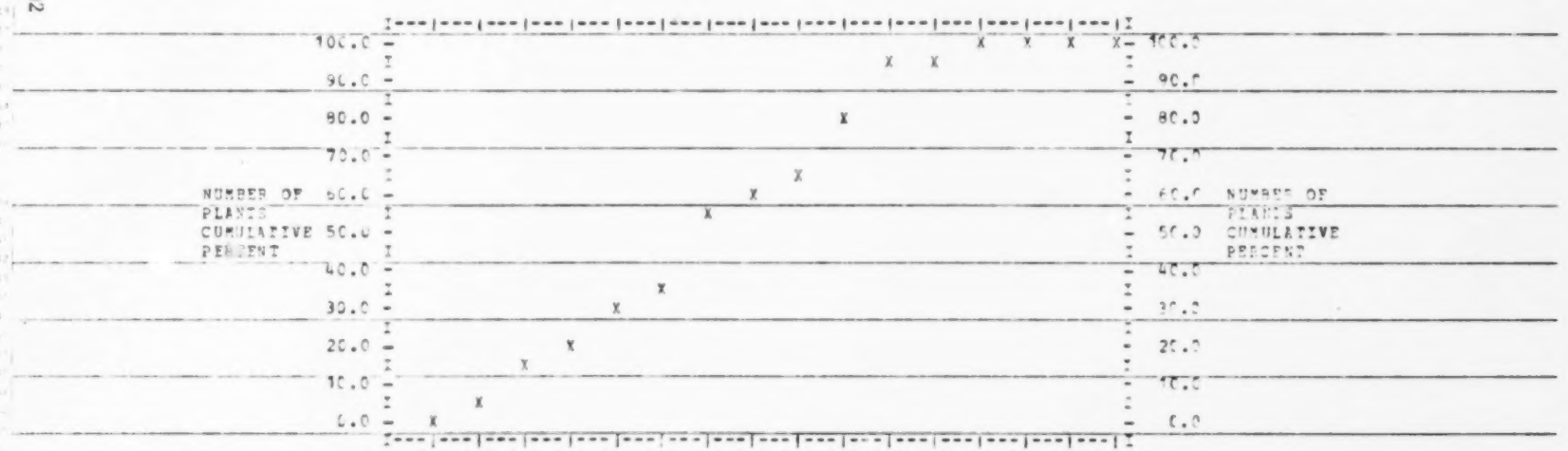
CO3-5

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

ALL OIL-FIRED BOILERS

FUEL SULFUR CONTENTS

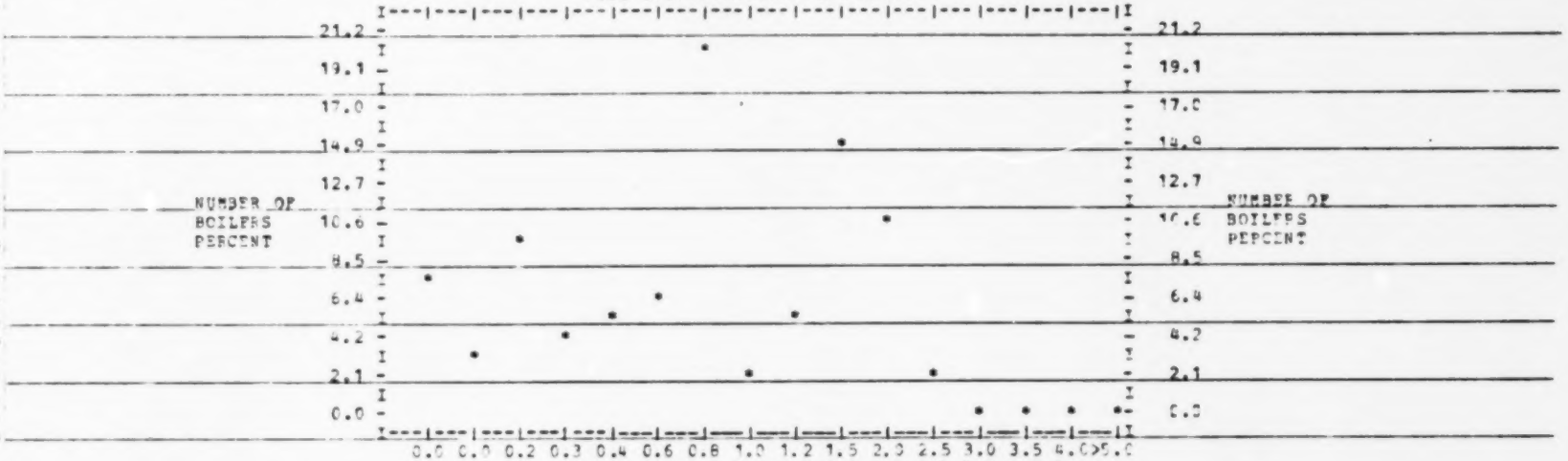


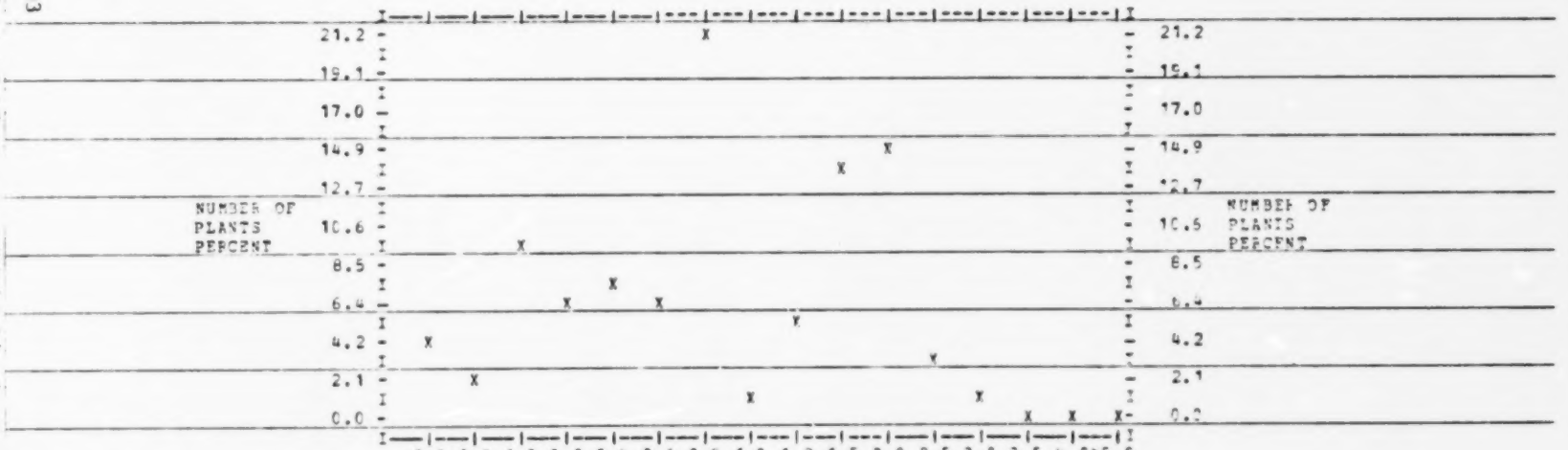


NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS

FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	197.	151.	297.	146.	154.	218.	774.	88.	230.
11- 20	148.	141.	183.	31.	100.	295.	1020.	260.	303.
21- 30	188.	52.	238.	50.	188.	257.	973.	71.	298.
31- 40	181.	108.	106.	35.	145.	267.	782.	68.	244.
41- 50	230.	46.	0.	45.	189.	100.	772.	42.	222.
51- 60	412.	0.	60.	0.	60.	229.	224.	58.	427.
61- 70	0.	137.	68.	256.	0.	132.	735.	0.	67.
71- 80	222.	222.	154.	0.	0.	697.	310.	0.	216.
81- 90	85.	90.	90.	0.	0.	85.	346.	0.	171.
91- 100	396.	0.	200.	193.	100.	100.	97.	0.	97.
101- 200	450.	670.	567.	120.	531.	703.	2766.	0.	376.
201- 300	300.	262.	972.	0.	460.	0.	220.	0.	288.
301- 400	0.	0.	0.	0.	0.	1453.	0.	0.	0.
401- 500	0.	443.	425.	0.	0.	0.	1732.	0.	0.
501- 600	0.	520.	0.	0.	1200.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	0.	672.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	735.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	885.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	1904.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	2809.	2842.	3360.	876.	5031.	4536.	13043.	587.	2939.
CUMUL. TOTALS	2809.	5651.	9011.	9887.	14918.	19454.	32497.	33084.	36023.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMUL OF ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	390.	309.	24.	10.	0.	0.	0.	2994.	2994.
11-	20	919.	574.	57.	20.	0.	0.	15.	4066.	7060.
21-	30	1045.	664.	136.	30.	0.	0.	0.	4190.	11250.
31-	40	739.	304.	218.	105.	0.	0.	0.	3302.	14552.
41-	50	647.	442.	190.	50.	0.	0.	0.	3375.	17927.
51-	60	1014.	545.	0.	109.	0.	0.	0.	3138.	21065.
61-	70	338.	528.	197.	70.	0.	0.	0.	2328.	23393.
71-	80	220.	373.	273.	75.	0.	0.	0.	2862.	26255.
81-	90	601.	330.	87.	0.	0.	0.	0.	1891.	28146.
91-	100	771.	484.	290.	200.	0.	0.	0.	2928.	31074.
101-	200	370.	2100.	363.	162.	0.	0.	0.	9178.	40252.
201-	300	898.	855.	0.	0.	0.	0.	0.	4555.	44807.
301-	400	300.	362.	0.	330.	0.	0.	0.	2505.	47312.
401-	500	0.	412.	450.	0.	0.	0.	0.	3462.	50474.
501-	600	520.	0.	0.	0.	0.	0.	0.	2240.	52714.
601-	700	0.	0.	0.	0.	0.	0.	0.	672.	53386.
701-	800	0.	0.	0.	0.	0.	0.	0.	735.	54121.
801-	900	0.	0.	0.	0.	0.	0.	0.	885.	55006.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	55006.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	1904.	56910.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
10001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
COLUMN TOTALS		8838.	8088.	2385.	1161.	0.	0.	15.	56910.	
CUMUL. TOTALS		44861.	53349.	55734.	56895.	56895.	56895.	56910.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	39.	16.	160.	107.	100.	84.	359.	8.	69.
11-	20	33.	74.	91.	31.	53.	47.	394.	69.	131.
21-	30	21.	30.	75.	0.	74.	226.	507.	0.	95.
31-	40	67.	107.	133.	0.	149.	67.	493.	73.	210.
41-	50	50.	44.	183.	45.	141.	186.	546.	0.	213.
51-	60	0.	0.	60.	0.	60.	174.	628.	57.	161.
61-	70	0.	70.	0.	0.	0.	134.	129.	0.	0.
71-	80	230.	76.	80.	0.	72.	0.	157.	0.	144.
81-	90	0.	0.	90.	0.	90.	0.	346.	0.	171.
91-	100	100.	0.	0.	193.	0.	195.	96.	0.	87.
101-	200	633.	476.	289.	498.	531.	560.	3474.	150.	544.
201-	300	292.	282.	0.	300.	250.	438.	961.	0.	797.
301-	400	0.	0.	337.	0.	0.	329.	338.	0.	265.
401-	500	917.	430.	425.	0.	0.	880.	1709.	0.	0.
501-	600	0.	0.	0.	0.	1200.	0.	529.	0.	587.
601-	700	0.	0.	0.	0.	0.	0.	672.	0.	636.
701-	800	0.	738.	0.	0.	0.	0.	735.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	865.	861.	0.
901-	1000	0.	0.	972.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	1904.	0.	1193.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		2382.	2323.	2895.	1174.	4624.	3311.	14121.	1218.	4217.
CUMUL. TOTALS		2382.	4705.	7600.	8774.	13398.	16709.	30830.	32048.	36265.

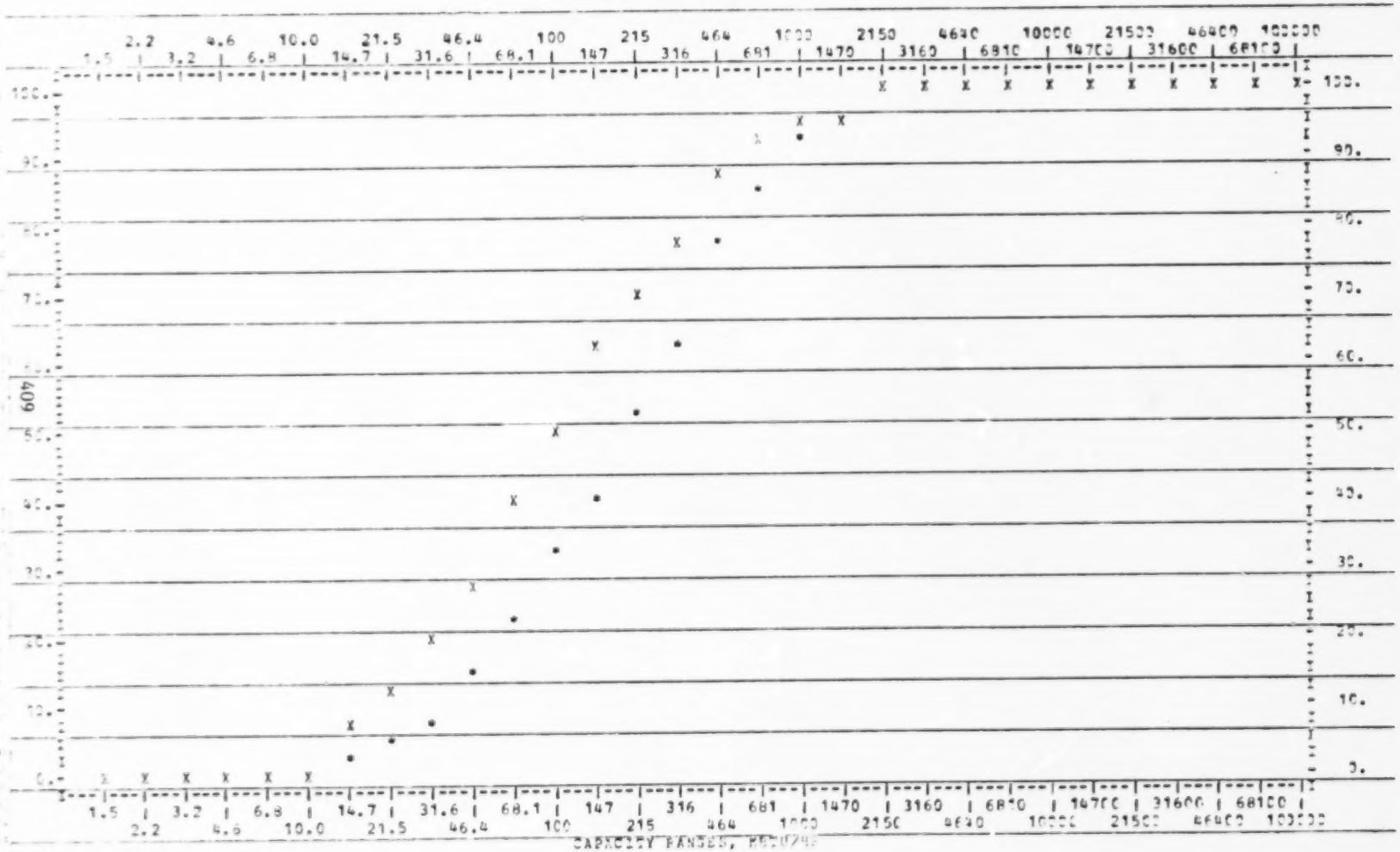
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL CAPACITY
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	94.	157.	21.	0.	0.	0.	0.	1214.	1214.
11-	20	333.	416.	18.	20.	0.	0.	0.	1710.	2924.
21-	30	348.	486.	83.	0.	0.	0.	0.	1945.	4869.
31-	40	492.	279.	115.	65.	0.	0.	0.	2250.	7119.
41-	50	645.	653.	190.	50.	0.	0.	0.	2946.	10065.
51-	60	733.	434.	0.	109.	0.	0.	0.	2416.	12481.
61-	70	408.	529.	330.	70.	0.	0.	0.	1670.	14151.
71-	80	453.	448.	228.	75.	0.	0.	0.	1963.	16114.
81-	90	346.	336.	87.	0.	0.	0.	0.	1466.	17580.
91-	100	466.	484.	190.	0.	0.	0.	0.	1821.	19401.
101-	200	1015.	1905.	388.	162.	0.	0.	0.	10627.	30028.
201-	300	1555.	773.	0.	280.	0.	0.	0.	5908.	35936.
301-	400	752.	301.	363.	330.	0.	0.	0.	3471.	39407.
401-	500	420.	460.	450.	0.	0.	0.	0.	5681.	44688.
501-	600	0.	576.	0.	0.	0.	0.	0.	2892.	47580.
601-	700	0.	0.	0.	0.	0.	0.	0.	1308.	48888.
701-	800	734.	0.	0.	0.	0.	0.	0.	2207.	51095.
801-	900	0.	0.	0.	0.	0.	0.	0.	1746.	52841.
901-	1000	0.	0.	0.	0.	0.	0.	0.	972.	53813.
1001-	2000	0.	0.	0.	0.	0.	0.	0.	3097.	56910.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	56910.
COLUMN TOTALS		8794.	8227.	2463.	1161.	0.	0.	0.	56910.	
CUMTOT. TOTALS		45059.	53286.	55749.	56910.	56910.	56910.	56910.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--PLANTS

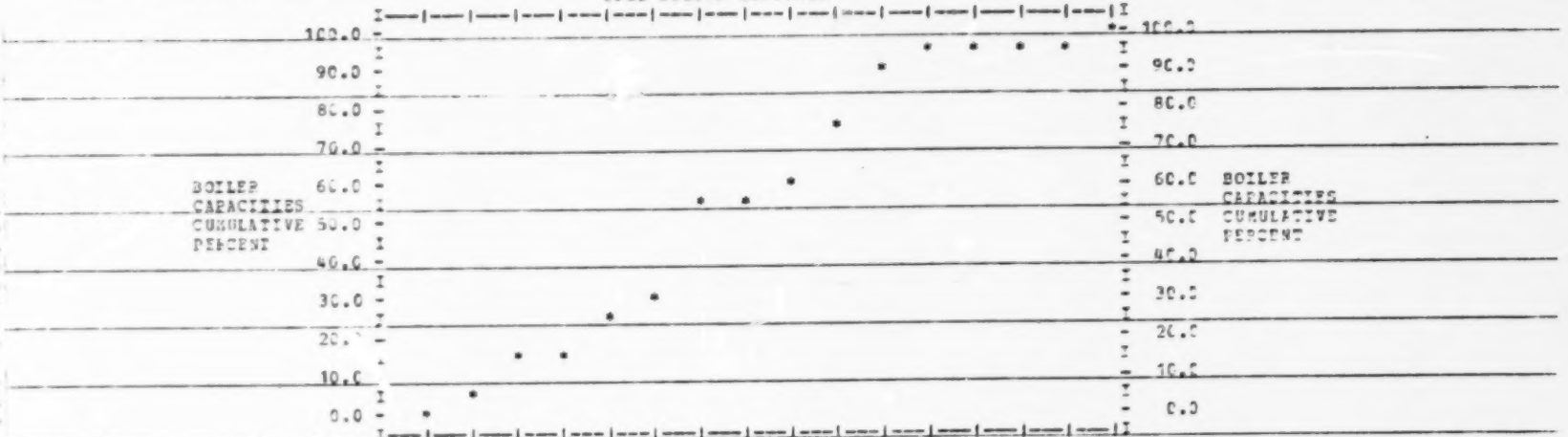


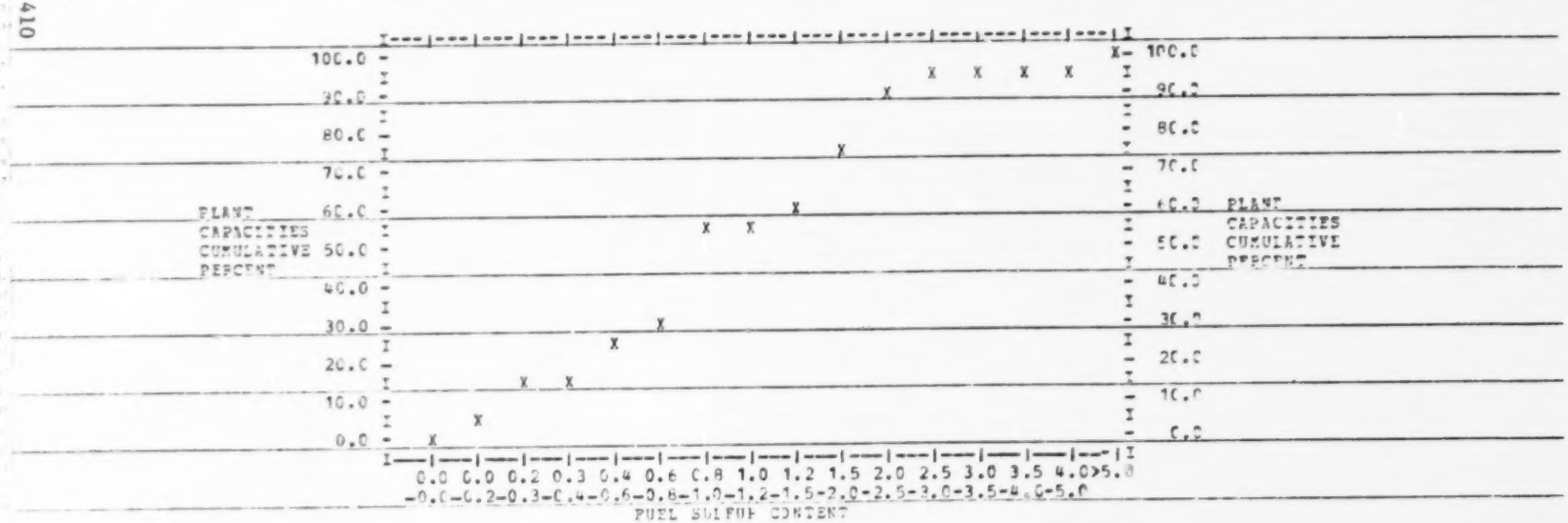
BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

ALL OIL-FIRED BOILERS

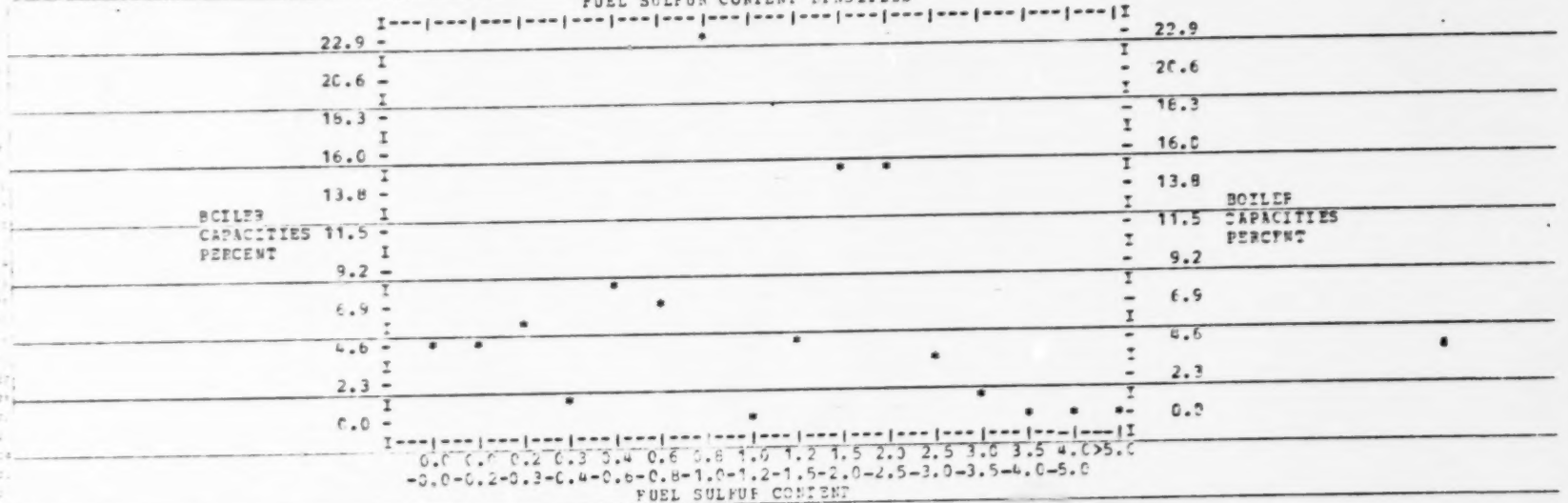
FUEL SULFUR CONTENTS

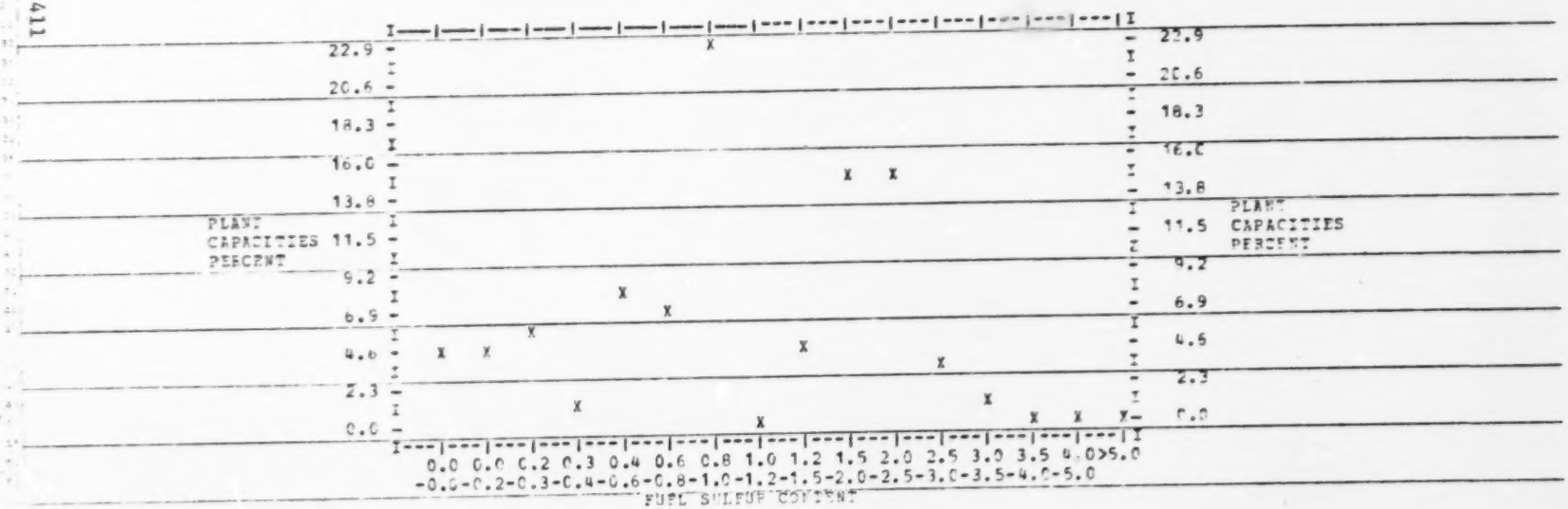




BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY BTU/CYCLE	EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	0.	16.	123.	51.	258.	324.	570.	263.	146.
11- 20	0.	14.	18.	14.	24.	136.	700.	146.	168.
21- 30	0.	3.	26.	1.	59.	125.	489.	45.	178.
31- 40	0.	12.	7.	16.	56.	73.	515.	90.	125.
41- 50	0.	2.	0.	2.	108.	22.	414.	16.	95.
51- 60	0.	0.	1.	0.	14.	147.	149.	14.	381.
61- 70	0.	0.	1.	86.	0.	12.	348.	0.	61.
71- 80	0.	4.	8.	0.	0.	385.	112.	0.	75.
81- 90	0.	3.	0.	0.	0.	69.	140.	0.	154.
91- 100	0.	0.	11.	8.	1.	6.	3.	0.	35.
101- 200	0.	32.	89.	94.	228.	98.	1077.	0.	281.
201- 300	0.	23.	71.	0.	4.	0.	58.	0.	110.
301- 400	0.	0.	0.	0.	0.	377.	0.	0.	0.
401- 500	0.	2.	32.	0.	0.	0.	302.	0.	0.
501- 600	0.	1.	0.	0.	163.	0.	0.	0.	0.
601- 700	0.	0.	0.	0.	0.	0.	278.	0.	0.
701- 800	0.	0.	0.	0.	0.	0.	26.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	96.	0.	0.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	39.	0.	0.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	113.	388.	272.	954.	1774.	5277.	574.	1809.
CUMUL. TOTALS	0.	113.	501.	772.	1726.	3500.	8777.	9351.	11159.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
0- 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	3930.	749.	78.	2.	0.	0.	0.	6570.	6570.
11- 20	1161.	892.	141.	35.	0.	0.	0.	3459.	10029.
21- 30	964.	934.	293.	6.	0.	0.	0.	3113.	13142.
31- 40	1016.	280.	321.	426.	0.	0.	0.	2938.	16080.
41- 50	674.	911.	455.	44.	0.	0.	0.	2743.	18823.
51- 60	1088.	993.	0.	53.	0.	0.	0.	2839.	21662.
61- 70	174.	421.	252.	43.	0.	0.	0.	1398.	23059.
71- 80	155.	593.	476.	42.	0.	0.	0.	1852.	24912.
81- 90	280.	310.	17.	0.	0.	0.	0.	973.	25884.
91- 100	1282.	730.	264.	35.	0.	0.	0.	2376.	28260.
101- 200	60.	2432.	535.	56.	0.	0.	0.	4982.	33242.
201- 300	234.	298.	0.	0.	0.	0.	0.	798.	34040.
301- 400	142.	320.	0.	31.	0.	0.	0.	869.	34910.
401- 500	0.	381.	18.	0.	0.	0.	0.	729.	35639.
501- 600	66.	0.	0.	0.	0.	0.	0.	230.	35869.
601- 700	0.	0.	0.	0.	0.	0.	0.	278.	36147.
701- 800	0.	0.	0.	0.	0.	0.	0.	26.	36172.
801- 900	0.	0.	0.	0.	0.	0.	0.	96.	36268.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	36268.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	39.	36307.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
COLUMN TOTALS	11276.	10242.	2846.	775.	0.	0.	9.	36307.	
CUMUL. TOTALS	22435.	32677.	35524.	36298.	36298.	36298.	36307.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	EQUAL 0.	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
0	0.	4.	33.	1.	164.	21.	1.	213.	0.
1- 10	0.	1.	66.	13.	77.	285.	388.	6.	67.
11- 20	0.	10.	12.	14.	21.	23.	182.	33.	69.
21- 30	0.	2.	20.	0.	39.	79.	378.	0.	81.
31- 40	0.	15.	12.	0.	56.	10.	308.	34.	136.
41- 50	0.	0.	19.	2.	96.	59.	252.	0.	147.
51- 60	0.	0.	1.	0.	14.	225.	367.	5.	169.
61- 70	0.	0.	0.	0.	0.	13.	67.	0.	0.
71- 80	0.	0.	6.	0.	18.	0.	50.	0.	73.
81- 90	0.	0.	0.	0.	14.	0.	140.	0.	154.
91- 100	0.	0.	0.	8.	0.	8.	65.	0.	35.
101- 200	0.	35.	57.	201.	228.	97.	1555.	152.	358.
201- 300	0.	23.	0.	13.	4.	158.	505.	0.	286.
301- 400	0.	0.	0.	40.	0.	223.	191.	0.	177.
401- 500	0.	0.	32.	0.	0.	117.	319.	0.	0.
501- 600	0.	0.	0.	0.	163.	0.	225.	0.	42.
601- 700	0.	0.	0.	0.	0.	0.	278.	0.	897.
701- 800	0.	5.	0.	0.	0.	0.	26.	0.	0.
801- 900	0.	0.	0.	0.	0.	0.	98.	454.	0.
901- 1000	0.	0.	71.	0.	0.	0.	0.	0.	0.
1001- 2000	0.	0.	0.	0.	39.	0.	275.	0.	0.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS	0.	95.	328.	291.	932.	1316.	5667.	895.	2291.
CUMUL. TOTALS	0.	95.	423.	714.	1647.	2963.	8629.	9524.	11815.

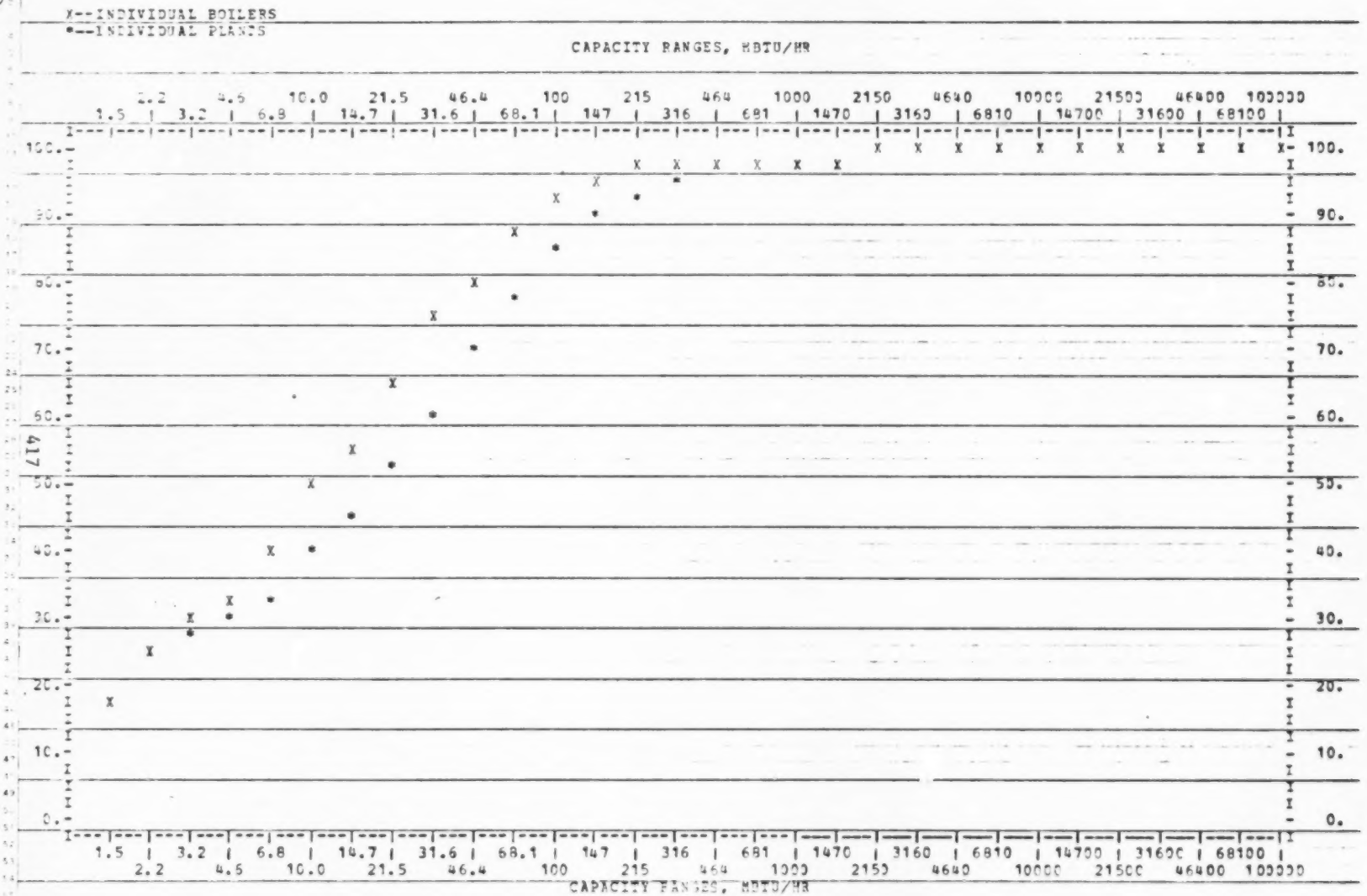
BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR	PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) >1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
EQUAL 0	255.	29.	33.	0.	0.	0.	0.	753.	753.
1- 10	173.	462.	40.	0.	0.	0.	0.	1578.	2331.
11- 20	561.	753.	27.	35.	0.	0.	0.	1738.	4069.
21- 30	409.	796.	195.	0.	0.	0.	0.	1997.	6067.
31- 40	485.	186.	271.	418.	0.	0.	0.	1930.	7997.
41- 50	733.	619.	455.	44.	0.	0.	0.	2427.	10424.
51- 60	956.	534.	0.	53.	0.	0.	0.	2322.	12745.
61- 70	450.	597.	504.	43.	0.	0.	0.	1674.	14420.
71- 80	436.	644.	212.	42.	0.	0.	0.	1480.	15900.
81- 90	194.	310.	17.	0.	0.	0.	0.	829.	16729.
91- 100	3586.	769.	132.	0.	0.	0.	0.	4603.	21331.
101- 200	493.	1917.	552.	56.	0.	0.	0.	5700.	27031.
201- 300	1643.	501.	0.	52.	0.	0.	0.	3184.	30215.
301- 400	464.	58.	470.	31.	0.	0.	0.	1655.	31870.
401- 500	246.	418.	13.	0.	0.	0.	0.	1144.	33014.
501- 600	0.	1016.	0.	0.	0.	0.	0.	1446.	34460.
601- 700	0.	0.	0.	0.	0.	0.	0.	775.	35235.
701- 800	107.	0.	0.	0.	0.	0.	0.	138.	35373.
801- 900	0.	0.	0.	0.	0.	0.	0.	549.	35922.
901- 1000	0.	0.	0.	0.	0.	0.	0.	71.	35993.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	314.	36307.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	36307.
COLUMN TOTALS	11191.	9607.	2921.	775.	0.	0.	0.	36307.	
CUMUL. TOTALS	23005.	32612.	35533.	36307.	36307.	36307.	36307.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT NUMBER DISTRIBUTIONS

X--INDIVIDUAL BOILERS
•--INDIVIDUAL PLANTS

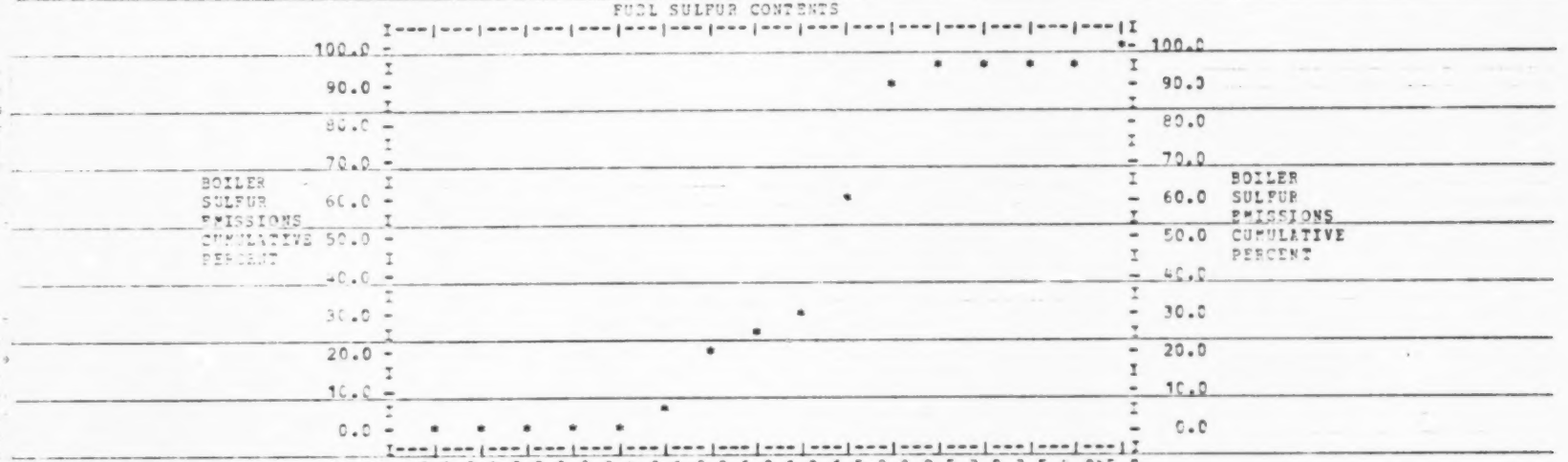


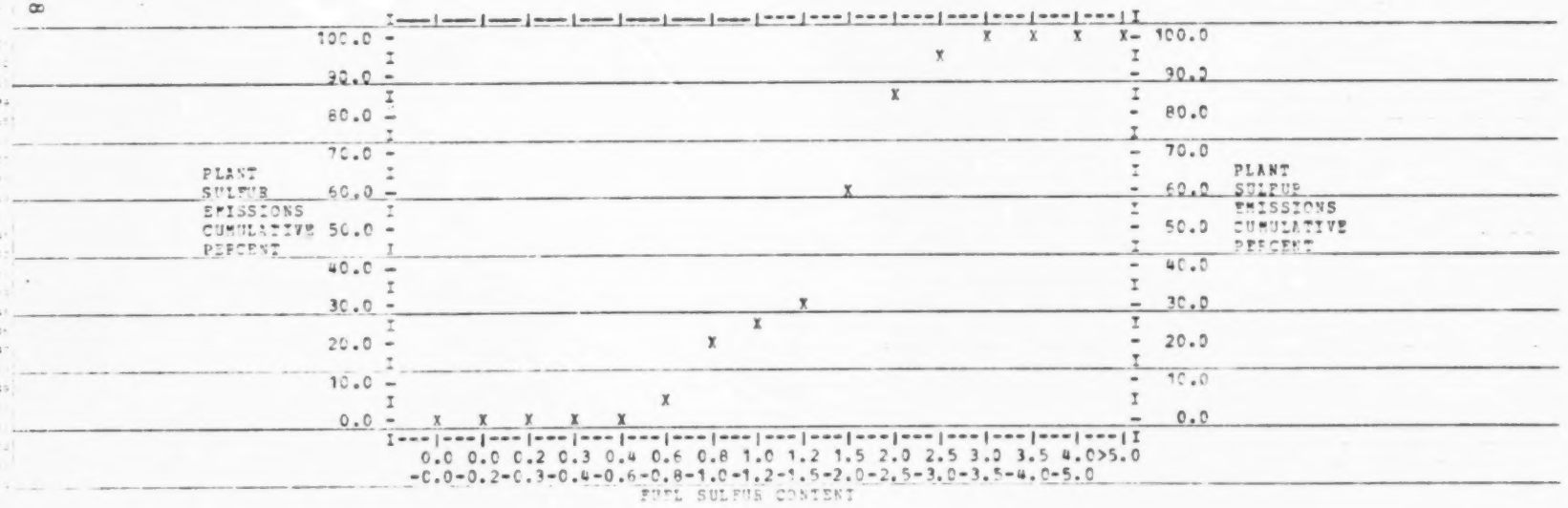
NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

ALL OIL-FIRED BOILERS

FUEL SULFUR CONTENTS



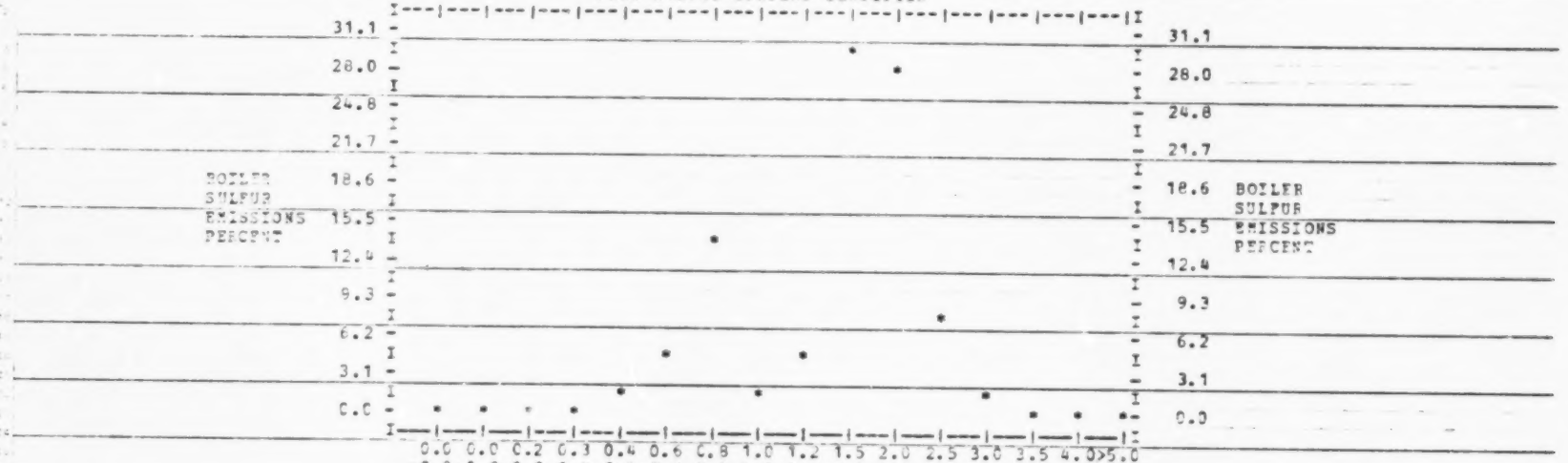


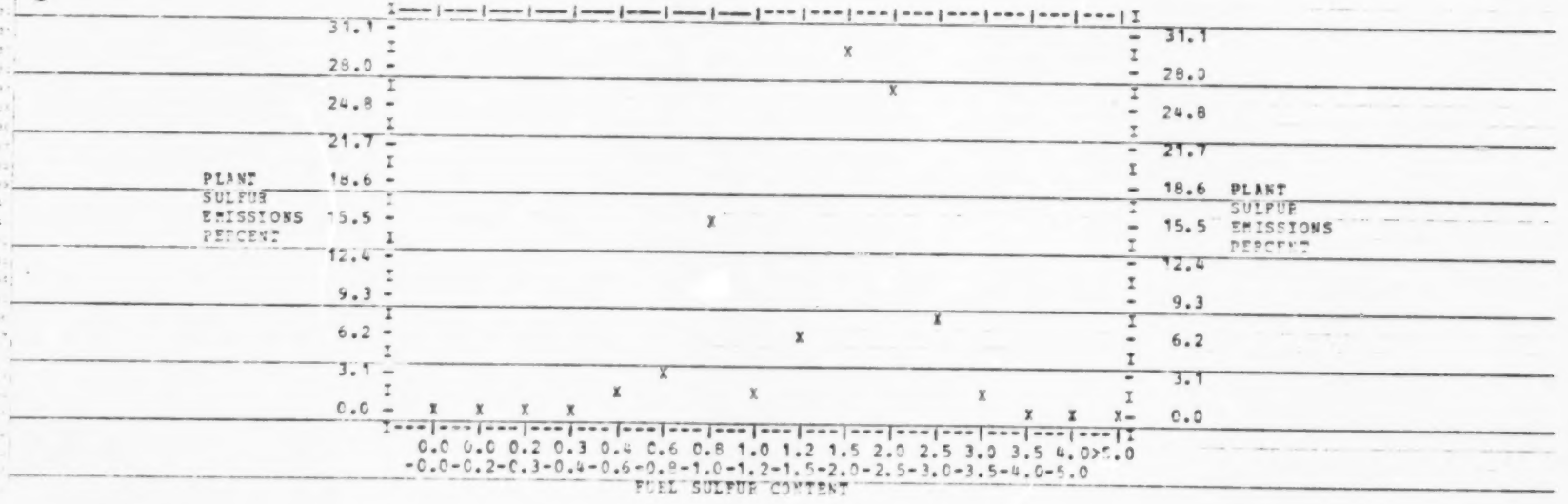
NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS

ALL OIL-FIRED BOILERS

FUEL SULFUR CONTENT DENSITIES





NUMBER OF BOILERS (ALL DATA) = 1779
NUMBER OF PLANTS (ALL DATA) = 993

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1-	10	137.	469.	1712.	511.	1854.	1598.	2207.	913.	402.
11-	20	0.	330.	262.	143.	169.	655.	19246.	507.	446.
21-	30	92.	128.	410.	12.	422.	624.	1922.	169.	493.
31-	40	39.	404.	91.	154.	424.	375.	2011.	288.	331.
41-	50	0.	119.	0.	25.	763.	121.	1605.	60.	252.
51-	60	0.	0.	12.	0.	113.	798.	584.	53.	971.
61-	70	0.	9.	14.	999.	0.	68.	1385.	0.	161.
71-	80	0.	208.	107.	0.	0.	1007.	450.	0.	204.
81-	90	0.	130.	6.	0.	0.	329.	565.	0.	403.
91-	100	0.	0.	168.	90.	10.	24.	14.	0.	88.
101-	200	104.	702.	1235.	916.	1787.	524.	4194.	0.	760.
201-	300	68.	864.	954.	0.	35.	0.	231.	0.	284.
301-	400	0.	0.	0.	0.	0.	1797.	0.	0.	0.
401-	500	0.	48.	501.	0.	0.	0.	1201.	0.	0.
501-	600	0.	33.	0.	0.	1249.	0.	0.	0.	0.
601-	700	0.	0.	0.	0.	0.	0.	1303.	0.	0.
701-	800	0.	0.	0.	0.	0.	0.	99.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	360.	0.	0.
901-	1000	0.	0.	0.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	310.	0.	0.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-100000		0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		440.	3452.	5492.	2848.	7134.	8821.	37378.	1988.	4795.
CUMUL. TOTALS		440.	3892.	9384.	12232.	19366.	28187.	65565.	67554.	72348.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	POW TOTAL	CUMTOT ALL
EQUAL 0	0.	0.	0.	0.	0.	0.	0.	0.	0.
1- 10	7719.	1238.	105.	3.	0.	0.	0.	18868.	18868.
11- 20	2346.	1495.	190.	41.	0.	0.	17.	25874.	44742.
21- 30	1913.	1526.	411.	7.	0.	0.	0.	8130.	52872.
31- 40	2016.	503.	467.	465.	0.	0.	0.	7569.	60442.
41- 50	1464.	[illegible]	610.	52.	0.	0.	0.	6635.	67077.
51- 60	2214.	1648.	0.	63.	0.	0.	0.	6456.	73532.
61- 70	356.	764.	355.	50.	0.	0.	0.	4162.	77694.
71- 80	307.	922.	704.	50.	0.	0.	0.	4859.	82553.
81- 90	545.	554.	24.	0.	0.	0.	0.	2555.	85109.
91- 100	2632.	1221.	371.	38.	0.	0.	0.	4556.	89665.
101- 200	119.	4243.	773.	67.	0.	0.	0.	15424.	105089.
201- 300	505.	515.	0.	0.	0.	0.	0.	3457.	108546.
301- 400	270.	580.	0.	36.	0.	0.	0.	2683.	111229.
401- 500	0.	580.	17.	0.	0.	0.	0.	2347.	113576.
501- 600	125.	0.	0.	0.	0.	0.	0.	1407.	114983.
601- 700	0.	0.	0.	0.	0.	0.	0.	1303.	116286.
701- 800	0.	0.	0.	0.	0.	0.	0.	99.	116385.
801- 900	0.	0.	0.	0.	0.	0.	0.	360.	116745.
901- 1000	0.	0.	0.	0.	0.	0.	0.	0.	116745.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	310.	117054.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
10001-100000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
COLUMN TOTALS	22434.	17358.	4025.	873.	0.	0.	17.	117054.	
CUMUL. TOTALS	94782.	112140.	116165.	117038.	117038.	117038.	117055.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

CAPACITY MBTU'S/HR		PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS) EQUAL 0.	>0. -.2	>.2 -.3	>.3 -.4	>.4 -.6	>.6 -.8	>.8 -1.0	>1.0 -1.2	>1.2 -1.5
EQUAL	0	35.	81.	440.	7.	1184.	112.	5.	727.	0.
1-	10	32.	28.	948.	133.	535.	1381.	1494.	18.	183.
11-	20	0.	199.	166.	143.	147.	130.	716.	114.	189.
21-	30	0.	75.	299.	0.	291.	418.	1495.	0.	205.
31-	40	88.	453.	156.	0.	428.	57.	17746.	127.	341.
41-	50	92.	0.	334.	25.	683.	301.	964.	0.	382.
51-	60	0.	0.	12.	0.	113.	1143.	1503.	15.	453.
61-	70	0.	0.	0.	0.	0.	72.	262.	0.	0.
71-	80	2.	8.	73.	0.	120.	0.	198.	0.	209.
81-	90	0.	0.	6.	0.	91.	0.	565.	0.	403.
91-	100	0.	0.	0.	90.	0.	37.	253.	0.	88.
101-	200	67.	779.	803.	2133.	1787.	551.	6196.	557.	973.
201-	300	0.	864.	0.	179.	35.	750.	2057.	0.	768.
301-	400	0.	0.	0.	541.	0.	1133.	727.	0.	451.
401-	500	104.	7.	501.	0.	0.	595.	1267.	0.	0.
501-	600	0.	0.	0.	0.	1249.	0.	873.	0.	133.
601-	700	0.	0.	0.	0.	0.	0.	1303.	0.	1623.
701-	800	0.	133.	0.	0.	0.	0.	99.	0.	0.
801-	900	0.	0.	0.	0.	0.	0.	360.	1542.	0.
901-	1000	0.	0.	954.	0.	0.	0.	0.	0.	0.
1001-	2000	0.	0.	0.	0.	310.	0.	1233.	0.	0.
2001-	3000	0.	0.	0.	0.	0.	0.	0.	0.	0.
3001-	4000	0.	0.	0.	0.	0.	0.	0.	0.	0.
4001-	5000	0.	0.	0.	0.	0.	0.	0.	0.	0.
5001-	6000	0.	0.	0.	0.	0.	0.	0.	0.	0.
6001-	7000	0.	0.	0.	0.	0.	0.	0.	0.	0.
7001-	8000	0.	0.	0.	0.	0.	0.	0.	0.	0.
8001-	9000	0.	0.	0.	0.	0.	0.	0.	0.	0.
9001-	10000	0.	0.	0.	0.	0.	0.	0.	0.	0.
10001-	20000	0.	0.	0.	0.	0.	0.	0.	0.	0.
20001-	30000	0.	0.	0.	0.	0.	0.	0.	0.	0.
30001-	40000	0.	0.	0.	0.	0.	0.	0.	0.	0.
40001-	50000	0.	0.	0.	0.	0.	0.	0.	0.	0.
50001-	100000	0.	0.	0.	0.	0.	0.	0.	0.	0.
COLUMN TOTALS		370.	2646.	4692.	3250.	6968.	6681.	39316.	3102.	6398.
CUMUL. TOTALS		370.	3016.	7707.	10957.	17925.	24606.	63922.	67024.	73423.

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BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CAPACITY
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU'S/YEAR
WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES

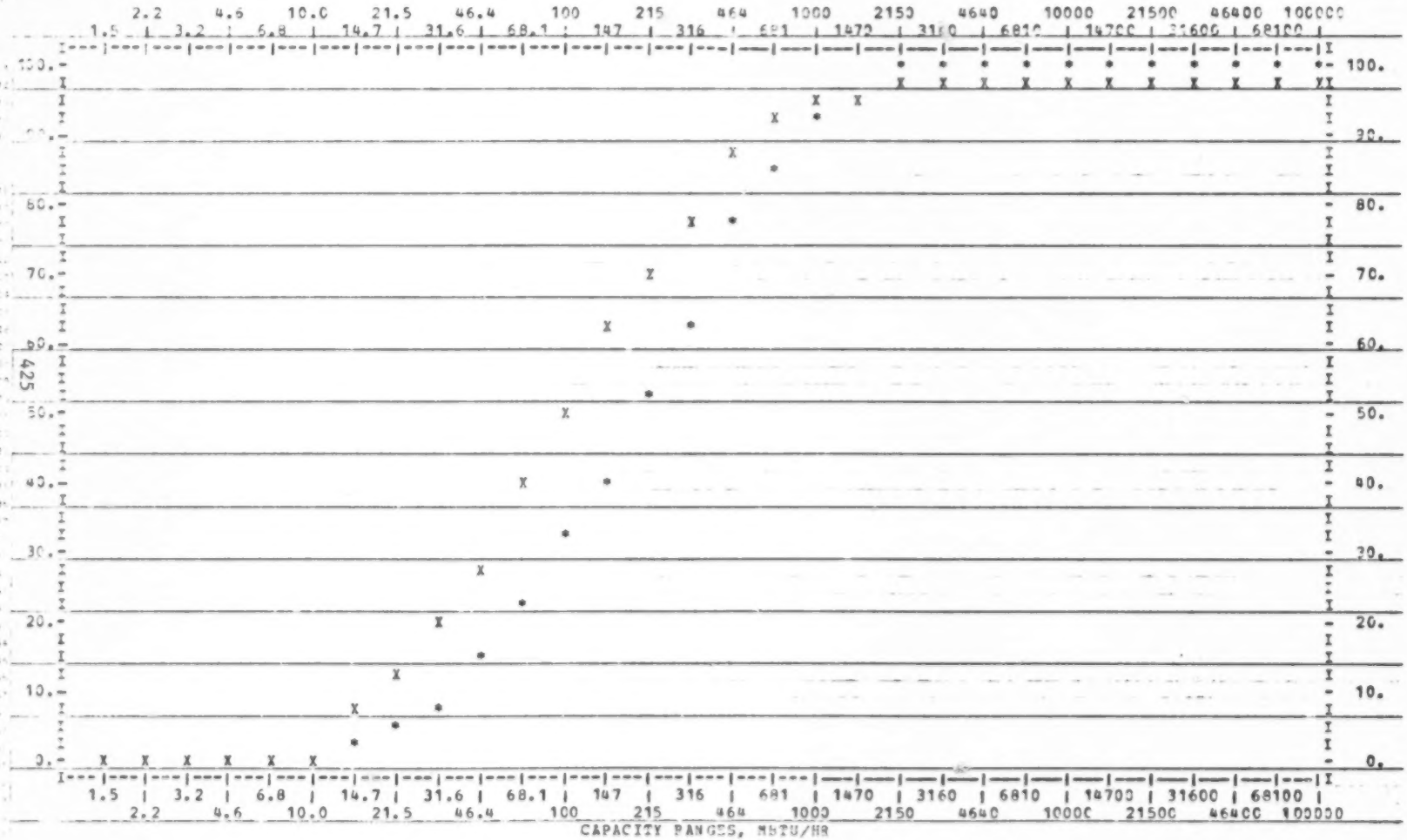
PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVALENT BTU BASIS)

CAPACITY MBTU'S/HR	>1.5 -2.0	>2.0 -2.5	>2.5 -3.0	>3.0 -3.5	>3.5 -4.0	>4.0 -5.0	>5.0	ROW TOTAL	CUMTOT ALL
TOTAL 0	495.	46.	42.	0.	0.	0.	0.	3185.	3185.
1- 10	403.	773.	57.	0.	0.	0.	0.	5985.	9171.
11- 20	1169.	1270.	35.	41.	0.	0.	0.	4318.	13489.
21- 30	835.	1286.	286.	0.	0.	0.	0.	5190.	18679.
31- 40	969.	322.	392.	456.	0.	0.	0.	21482.	40161.
41- 50	1563.	1053.	610.	52.	0.	0.	0.	6064.	46225.
51- 60	1990.	916.	0.	63.	0.	0.	0.	6209.	52434.
61- 70	882.	1072.	730.	50.	0.	0.	0.	3070.	55504.
71- 80	873.	999.	309.	50.	0.	0.	0.	2841.	58344.
81- 90	382.	554.	24.	0.	0.	0.	0.	2025.	60369.
91- 100	6883.	1300.	175.	0.	0.	0.	0.	8824.	69194.
101- 200	967.	3307.	799.	67.	0.	0.	0.	18986.	88180.
201- 300	3259.	873.	0.	57.	0.	0.	0.	8841.	97020.
301- 400	892.	95.	699.	36.	0.	0.	0.	4573.	101593.
401- 500	469.	645.	17.	0.	0.	0.	0.	3604.	105197.
501- 600	0.	1842.	0.	0.	0.	0.	0.	4097.	109294.
601- 700	0.	0.	0.	0.	0.	0.	0.	2926.	112221.
701- 800	204.	0.	0.	0.	0.	0.	0.	435.	112656.
801- 900	0.	0.	0.	0.	0.	0.	0.	1902.	114558.
901- 1000	0.	0.	0.	0.	0.	0.	0.	954.	115512.
1001- 2000	0.	0.	0.	0.	0.	0.	0.	1542.	117054.
2001- 3000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
3001- 4000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
4001- 5000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
5001- 6000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
6001- 7000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
7001- 8000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
8001- 9000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
9001- 10000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
10001- 20000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
20001- 30000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
30001- 40000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
40001- 50000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
50001-100000	0.	0.	0.	0.	0.	0.	0.	0.	117054.
COLUMN TOTALS	22234.	16353.	4173.	873.	0.	0.	0.	117054.	
CUMUL. TOTALS	95656.	112009.	116181.	117055.	117055.	117055.	117055.		

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
BOILER AND PLANT SIZE DISTRIBUTIONS

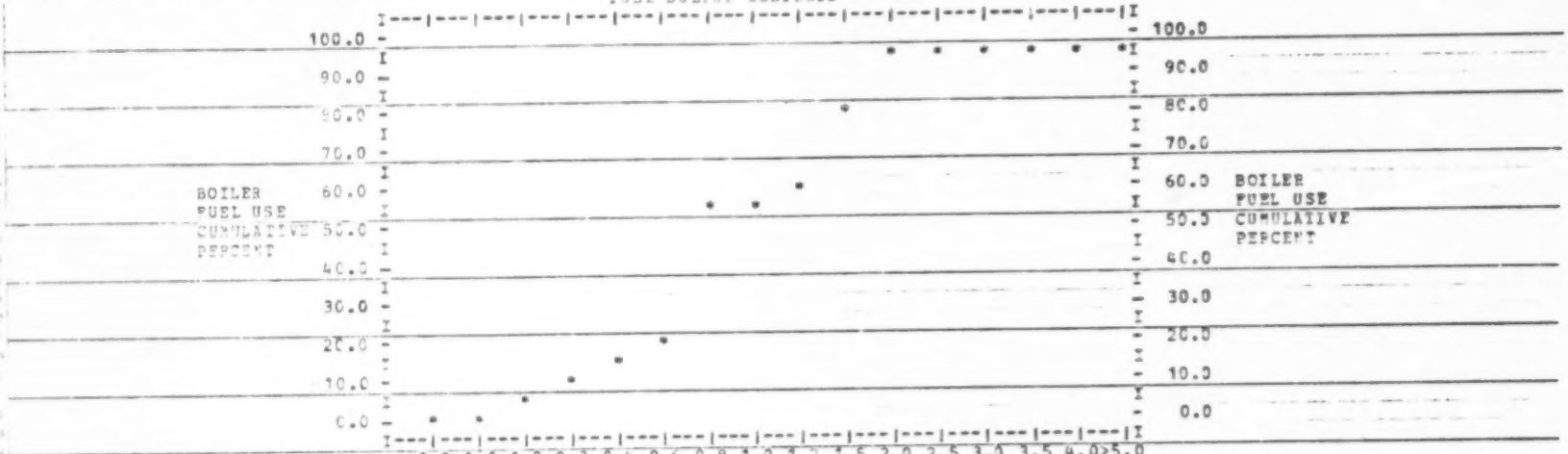
X--INDIVIDUAL BOILERS
•--PLANTS

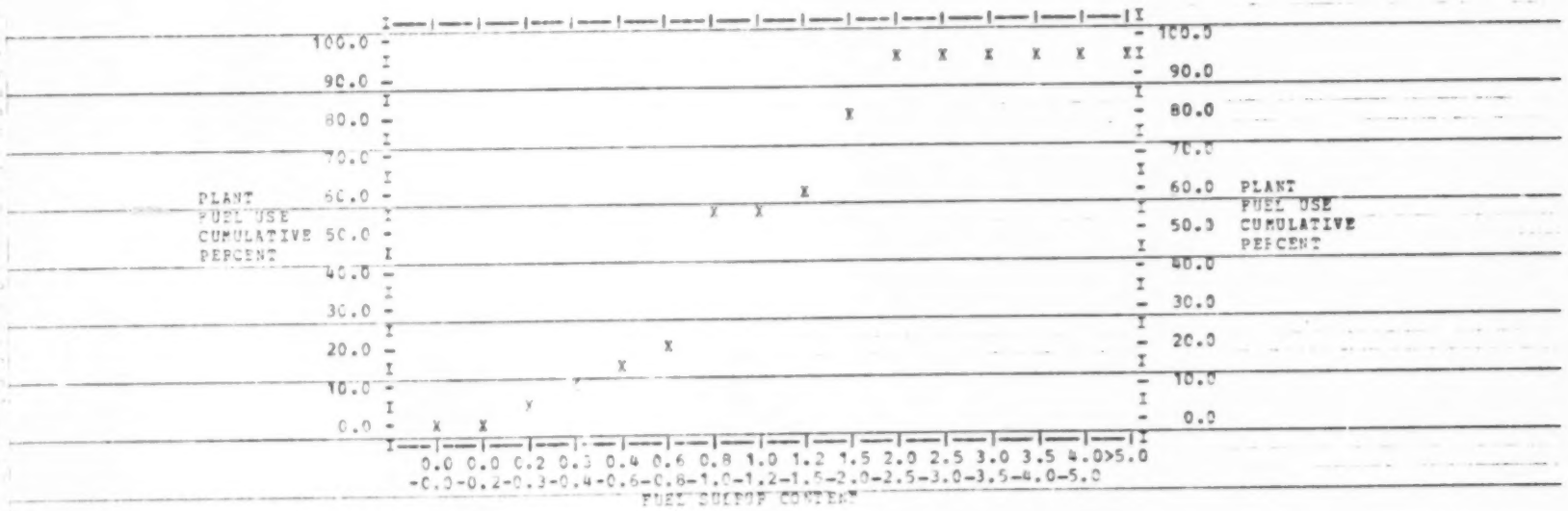
CAPACITY RANGES, MBTU/HR



BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENTS





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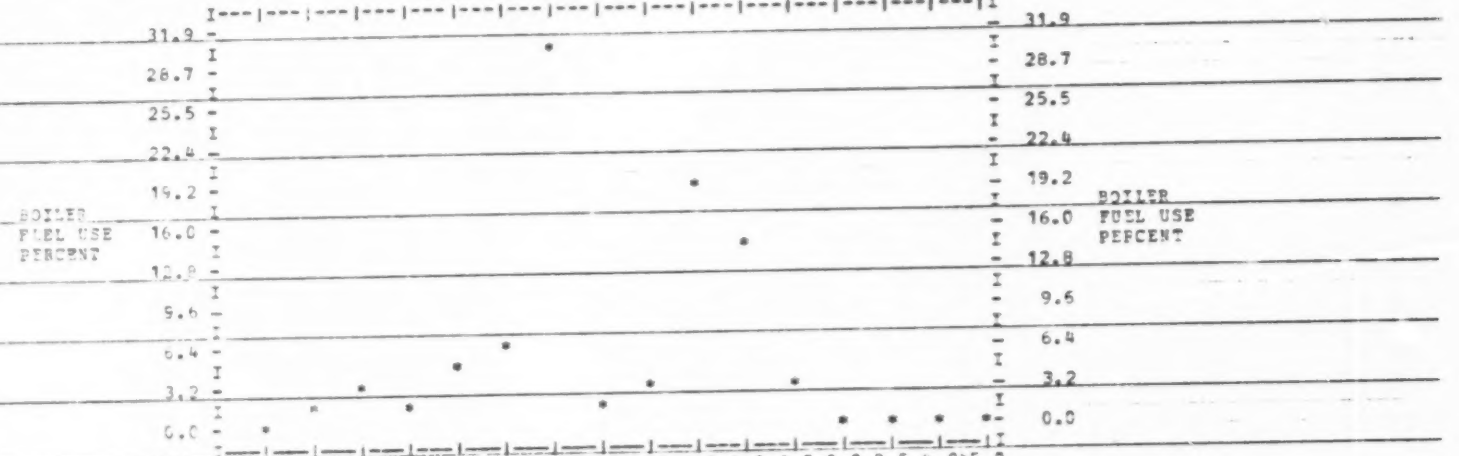
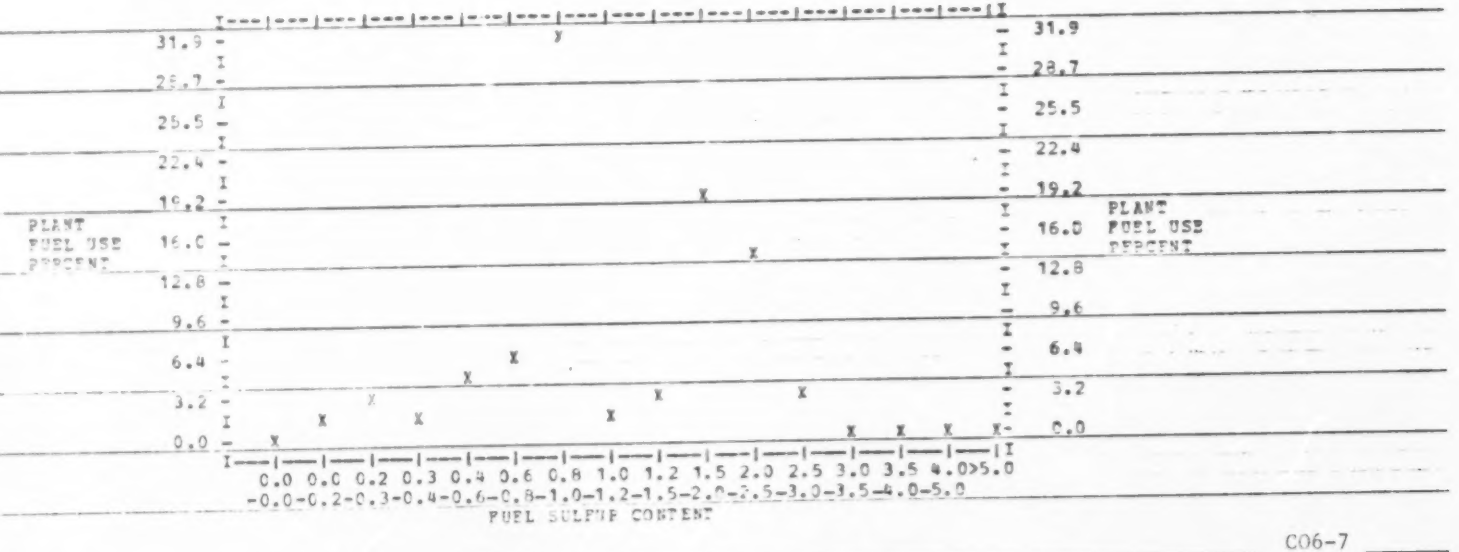
BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

BOILER POPULATION DATA - COMMERCIAL-INSTITUTIONAL BOILERS
ALL OIL-FIRED BOILERS
FUEL SULFUR CONTENT DENSITIES





BOILER CAPACITIES (ALL DATA) = 56910.
PLANT CAPACITIES (ALL DATA) = 56910.

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MILLION'S/HP	EQUAL ZERO	1-20	21-40	41-60	61-80	81-100	101-120	121-140	141-160	161-180	181-200	201-250	251-300	301-350	351-400
STACK HEIGHTS IN FEET															
0	92	3	13		2	2	0	2	2	0	0	2	0	1	0
1- 10	462	21	52	36	24	19	6	8	2	0	1	3	0	1	0
11- 20	92	4	29	20	18	17	12	7	1	3	1	1	0	0	0
21- 30	41	3	11	7	14	12	3	11	0	5	0	2	0	0	0
31- 40	23	1	16	6	6	8	5	5	1	2	0	0	0	0	0
41- 50	23	1	5	8	4	3	6	6	5	5	1	2	0	0	1
51- 60	11	0	4	4	6	1	2	11	1	1	1	2	1	0	0
61- 70	9	0	5	3	3	3	2	2	4	1	1	1	0	0	0
71- 80	10	0	3	3	3	1	1	4	3	2	1	1	0	0	0
81- 90	4	0	0	1	1	1	0	4	3	2	1	1	0	0	0
91- 100	2	1	0	5	1	2	0	3	4	1	0	2	1	0	0
101- 200	24	0	5	8	7	5	4	6	12	2	2	4	1	0	0
201- 300	1	1	0	3	1	3	0	1	1	0	2	1	0	0	0
301- 400	1	0	0	0	0	1	0	1	0	0	2	0	0	0	0
401- 500	1	1	1	1	2	1	0	1	1	1	0	1	0	0	0
501- 600	2	0	0	0	1	0	0	0	0	0	0	0	0	1	0
601- 700	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
701- 800	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
801- 900	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
1001- 2000	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5001- 6000	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOTALS	799	37	149	111	93	86	41	74	40	26	13	25	4	3	1
CUMUL. TOTALS	0	37	186	297	390	476	517	591	631	659	672	697	701	704	705

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BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
STACK HEIGHT BY TOTAL DESIGN CAPACITY SERVED
ALL OIL-FIRED BOILERS

TABLE ENTRIES ARE NUMBER OF STACKS

CAPACITY MBTU'S/HR	STACK HEIGHTS IN FEET 431-450	451-500	501-550	551-600	601-650	651-700	701-750	751-800	801-850	851-900	901-950	951-1000	ABOVE 1000	ROW TOTAL	CUM. TOTAL
EQUAL 0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	0
1- 10	0	0	0	0	0	0	0	0	0	0	0	0	0	635	635
11- 20	0	0	0	0	0	0	0	0	0	0	0	0	0	205	840
21- 30	0	0	0	0	0	0	0	0	0	0	0	0	0	109	949
31- 40	0	0	0	0	0	0	0	0	0	0	0	0	0	73	1022
41- 50	0	0	0	0	0	0	0	0	0	0	0	0	0	76	1098
51- 60	0	0	0	0	0	0	0	0	0	0	0	0	0	45	1143
61- 70	0	0	0	0	0	0	0	0	0	0	0	0	0	33	1176
71- 80	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1208
81- 90	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1226
91- 100	0	0	0	0	0	0	0	0	0	0	0	0	0	22	1248
101- 200	0	0	0	0	0	0	0	0	0	0	0	0	0	85	1333
201- 300	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1353
301- 400	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1358
401- 500	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1369
501- 600	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1373
601- 700	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1374
701- 800	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1376
801- 900	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1377
901- 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1378
1001- 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1379
2001- 3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
3001- 4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
4001- 5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
5001- 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
6001- 7000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
7001- 8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
8001- 9000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
9001- 10000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
10001- 20000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
20001- 30000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
30001- 40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
40001- 50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
50001-100000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1379
COLUMN TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	1504	1379
CUMUL. TOTALS	705	705	705	705	705	705	705	705	705	705	705	705	705		

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL OIL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR		PLANT LOAD FACTORS: EQUAL 0.00	0.01-0.09	0.10-0.19	0.20-0.29	0.30-0.39	0.40-0.49	0.50-0.59	0.60-0.69	0.70-0.79
EQUAL	0	1.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-	10	1.00	1.37	1.22	1.27	1.20	1.08	1.36	1.00	1.00
11-	20	1.50	1.56	1.71	1.30	1.39	4.67	2.00	1.00	1.67
21-	30	3.00	1.77	1.41	1.80	2.40	1.00	1.00	3.00	1.00
31-	40	2.00	2.83	1.35	2.36	7.00	9.00	1.67	1.00	0.0
41-	50	0.0	2.33	2.12	1.57	1.40	2.25	2.50	1.00	1.00
51-	60	0.0	1.50	2.33	1.75	2.50	5.00	1.40	3.00	0.0
61-	70	0.0	1.88	3.00	2.20	2.00	2.00	0.0	0.0	1.00
71-	80	4.00	2.29	2.18	3.00	1.00	0.0	1.50	0.0	0.0
81-	90	0.0	1.50	1.80	1.50	1.00	1.00	0.0	0.0	0.0
91-	100	38.00	1.67	1.75	3.75	2.50	0.0	1.00	0.0	0.0
101-	200	4.00	2.95	2.69	3.06	1.67	4.60	0.0	6.00	2.00
201-	300	9.00	3.75	5.83	15.50	5.00	3.00	0.0	0.0	0.0
301-	400	0.0	2.00	4.67	6.50	0.0	4.00	0.0	0.0	0.0
401-	500	11.00	3.17	3.33	0.0	0.0	0.0	0.0	0.0	0.0
501-	600	0.0	7.00	48.00	1.00	4.00	0.0	0.0	0.0	0.0
601-	700	0.0	0.0	0.0	27.50	0.0	0.0	0.0	0.0	0.0
701-	800	0.0	4.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
801-	900	0.0	1.00	0.0	20.00	0.0	0.0	0.0	0.0	0.0
901-	1000	0.0	0.0	4.00	0.0	0.0	0.0	0.0	0.0	0.0
1001-	2000	0.0	1.00	3.00	0.0	0.0	0.0	0.0	0.0	0.0
2001-	3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3001-	4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4001-	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5001-	6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6001-	7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7001-	8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8001-	9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9001-	10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10001-	20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20001-	30000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30001-	40000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40001-	50000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50001-	100000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COLUMN TOTALS		3.58	2.02	1.98	2.45	1.87	3.10	1.47		
CUMUL. TOTALS		0.0	2.02	2.00	2.11	2.08	2.13			

BOILER POPULATION DATA - COMMERCIAL INSTITUTIONAL BOILERS
AVERAGE NUMBER OF BOILERS PER PLANT BY CAPACITY & LOAD FACTOR RANGE
ALL OIL-FIRED BOILERS

ENTRIES ARE NUMBER OF BOILERS DIVIDED BY NUMBER OF PLANTS FOR EACH CAPACITY & LOAD FACTOR PAIR

CAPACITY MBTU'S/HR	PLANT LOAD FACTORS 0.80-0.89	0.90-0.99	TOTAL <1.00	EQUAL 1.00	ABOVE 1.00	ROW TOTAL	CUMTOT <1.00	CUMTOT ALL
EQUAL 0	0.0	0.0	1.67	0.0	1.50	1.53	0.0	0.0
1- 10	1.25	1.00	1.26	0.0	1.43	1.27	1.26	1.27
11- 20	5.00	1.00	1.72	0.0	1.00	1.71	1.38	1.39
21- 30	0.0	1.00	1.66	0.0	1.75	1.66	1.42	1.42
31- 40	0.0	0.0	2.59	0.0	1.80	2.53	1.55	1.54
41- 50	1.00	1.00	1.95	0.0	0.0	1.95	1.59	1.58
51- 60	0.0	0.0	2.05	0.0	1.00	2.00	1.62	1.61
61- 70	2.00	0.0	2.28	0.0	0.0	2.28	1.64	1.63
71- 80	0.0	0.0	2.35	0.0	0.0	2.35	1.67	1.66
81- 90	0.0	0.0	1.53	0.0	0.0	1.53	1.67	1.66
91- 100	0.0	0.0	4.22	0.0	5.00	4.26	1.73	1.72
101- 200	0.0	0.0	2.94	0.0	1.00	2.92	1.84	1.82
201- 300	0.0	0.0	5.43	0.0	0.0	5.43	1.96	1.92
301- 400	0.0	0.0	4.11	0.0	0.0	4.11	1.96	1.94
401- 500	0.0	0.0	3.85	0.0	0.0	3.85	1.99	1.97
501- 600	0.0	0.0	13.40	0.0	0.0	13.40	2.05	2.03
601- 700	0.0	0.0	27.50	0.0	0.0	27.50	2.11	2.09
701- 800	0.0	0.0	4.00	0.0	0.0	4.00	2.12	2.10
801- 900	0.0	0.0	10.50	0.0	0.0	10.50	2.14	2.11
901- 1000	0.0	0.0	4.00	0.0	0.0	4.00	2.14	2.12
1001- 2000	0.0	0.0	2.00	0.0	0.0	2.00	2.14	2.12
2001- 3000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
3001- 4000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
4001- 5000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
5001- 6000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
6001- 7000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
7001- 8000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
8001- 9000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
9001- 10000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
10001- 20000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
20001- 30000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
30001- 40000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
40001- 50000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
50001-100000	0.0	0.0	0.0	0.0	0.0	0.0	2.14	2.12
COLUMN TOTALS	1.86	1.00	2.13	0.0	1.51	1.90	2.08	2.07
CUMUL. TOTALS	2.09	2.08	2.08	2.08	2.02	1.90	2.08	2.07

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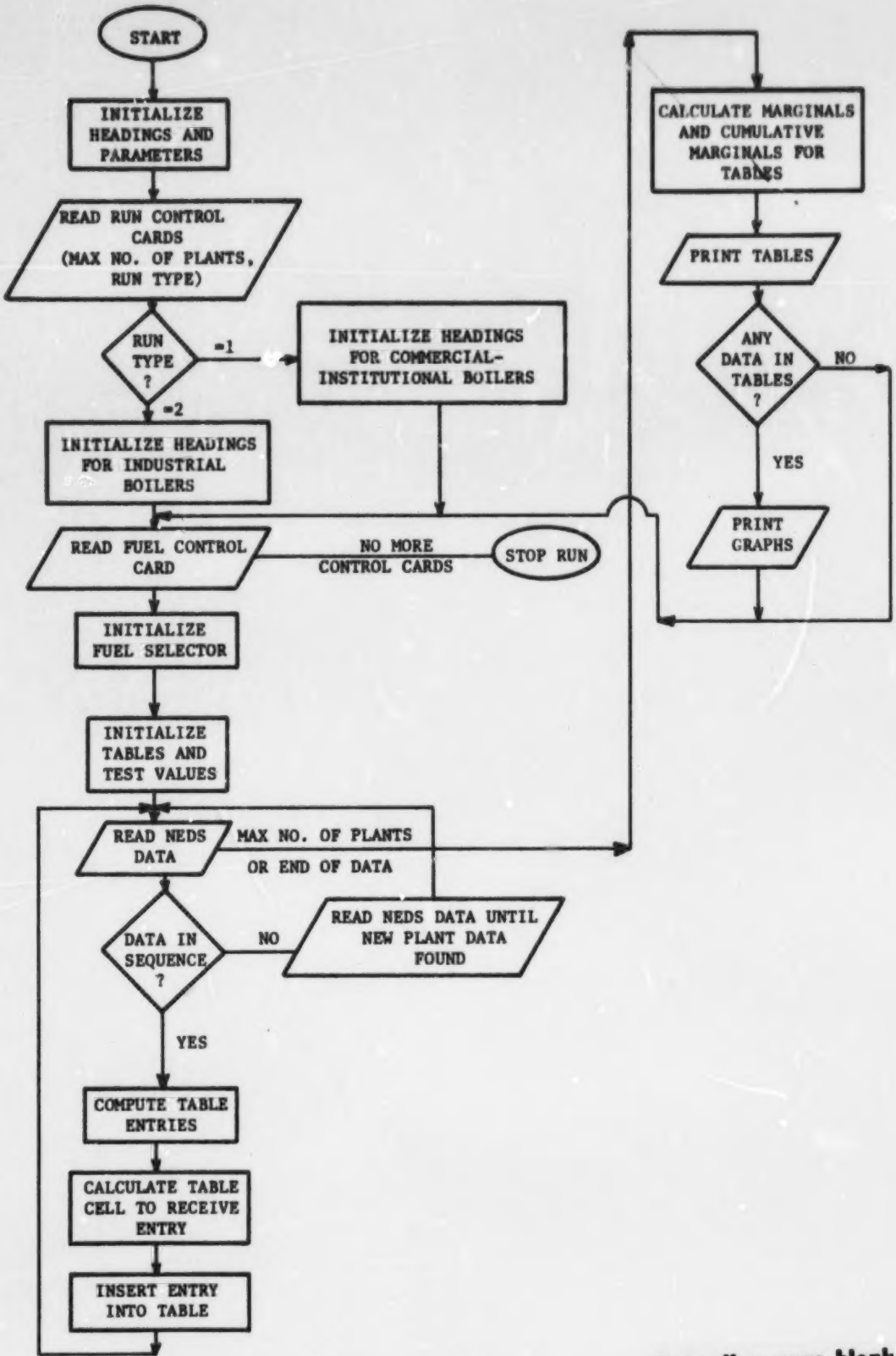
APPENDIX B

Flowchart and Program Listings

LOGIC FLOWCHART OF COMPUTER PROGRAMS



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PROGRAM THAT PRODUCED JOINT DISTRIBUTIONS 1 THROUGH 6

```
C     SUBPROGRAM FOR BOILER POPULATION DATA ANALYSIS                                  1
C     DATA EITHER HAS BEEN  ORDERED OR IS ASSUMED TO BE IN ORDER                      2
      CALL REREAD                                                                     3
      COMMON LCAP(30),MAXBT (60),ACTBTU(60,3),LDFACT(3),BLDFAC(60),IBENT              4
     1Y(35,17),CUMCL(30),CO TT(30),LP(35),BLF(13),PLF(13),IPENTY(35,17),              5
     1MKAP(35),IDAT(5,500),  AT(15,5),KBOIL(13),ICOLTT(17),ICUMCL(17),B(3            6
     10),IP(35),LPLANT(13),  ENTY(30,17),PENTY(35,17),IMT(28),IMGMT(50),I            7
     1BENTY(34,30),ATUMAX(5 )                                                        8
      INTEGER BENTY,PENTY,C LTT,CUMCL,TOT5,TOT6,TOT7,TOT8                            9
      REAL LDFACT,MAXBTU,IB NTY,IPENTY,ICOLTT,ICUMCL                                 10
      DIMENSION ISIDE(3,21) JSIDE(3,21),KSIDE(3,21),LSIDE(3,21),CUM1(36)             11
     1,CUM2(36),CUM5(36),CU 6(36),CUM7(30),CUM8(30)                                  12
      DIMENSION CUM3(30),CU 4(30),IISIDE(3,21),JJSIDE(3,21),KKSIDE(3,21)             13
     1,LLSIDE(3,21),HEADNG( 9),BOILER(19,3),CMRINS(19),AINDUS(19),UTILIT            14
     1(19)                                                                           15
      DIMENSION IR(12,13),I H(12),LABEL(12,13),TITLE(12)                             16
      DIMENSION ALFUEL(11), LCOAL(11),RESOIL(11),DISOIL(11),ALLOIL(11),N             17
     1ATGAS(11),PROGAS(11), PGGAS(11),ALLGAS(11),COKE(11),OTHER(11),BAGG            18
     1AS(11),MULTFL(11),ACO TT(17),ACUMCL(17),AVBPLT(34,17)                         19
      REAL*8 LABEL,TITLE,LP GAS,NATGAS,MULTFL                                        20
      DATA IR/15*1,12*0,1,1 5*0,1,10*0,1,1,12*0,1,12*0,1,12*0,1,12*0,1,0,            21
     10,1,9*0,1,7*0,1,1,0,0 1,12*0,1,0/                                              22
      DATA ALFUEL/'(1H ',', 2X',',''AL','L BO','ILER','S AN','D AL','L F            23
     1U','ELS ',' '    ')'/                                                         24
      DATA LCOAL/'(53X',', 'AL','L CO','AL-F','IRED',' BOI','LERS','                 25
     1 ',' '    ',' '    ')'/                                                       26
      DATA RESOIL/'(52X',', 'RE','SIDU','AL O','IL-F','IRED',' BOI','LER             27
     1S',' '    ',' '    ')'/                                                       28
      DATA DISOIL/'(51X',', 'DI','STIL','LATE',' OIL','-FIR','ED B','OIL             29
     1E','RS  ',' '    ')'/                                                        30
      DATA ALLOIL/'(50X',', 'AL','L OI','L-FI','RED ','BOIL','ERS ',                 31
     1 ',' '    ',' '    ')'/                                                       32
      DATA NATGAS/'(52X',', 'NA','TURA','L GA','S-FI','RED ','BOIL','ERS             33
     1 ',' '    ',' '    ')'/                                                       34
      DATA PROGAS/'(52X',', 'PR','OCES','S GA','S-FI','RED ','BOIL','ERS             35
     1 ',' '    ',' '    ')'/                                                       36
      DATA LPGGAS/'(48X',', 'LI','QUID',' PET','ROLE','UM G','AS-F','IRE             37
     1D',' BOI','LERS',' '    ')'/                                                  38
      DATA ALLGAS/'(50X',', 'AL','L GA','S-FI','RED ','BOIL','ERS ',                 39
     1 ',' '    ',' '    ')'/                                                       40
      DATA COKE/'(53X',',''AL','L CO','KE-F','IRED',' BOI','LERS','    '            41
     1,' '    ',' '    '')'/                                                       42
      DATA BAGGAS/'(52X',', 'AL','L BA','GGAS','E-FI','RED ','BOIL','ERS             43
     1 ',' '    ',' '    ')'/                                                       44
      DATA OTHER/'(49X',',' AL','L MU','DD A','ND O','THER','-FIR','ED H             45
     1','OILE','RS  ',' '    '')'/                                                  46
      DATA MULTFL/'(49X',', 'MU','LTIP','LE F','UEL-','FIRE','D BO','ILE             47
     1R','S ON','LY  ',' '    ')'/                                                  48
      DATA CUM3/30*0,/,CUM4 30*0,/,CUM7/30*0,/,CUM8/30*0,/,CUM5/36*0,/,C             49
     1UM6/36*0,/                                                                     50
      DATA ISIDE/27*'    ', PERC','ENT ',' ','    ','CUMU','LATI','VE  ','CA        51
     1PA','CITI','ES  ','BO L','ER  ',' ',24*'    '/                                52
      DATA JSIDE/27*'    ', PERC','ENT ',' ','    ','CUMU','LATI','VE  ','CA        53
     1PA','CITI','ES  ','PLAN','T   ',' ',24*'    '/                                54
      DATA KSIDE/27*'    ', PERC','ENT ',' ','    ','CAPA','CITI','ES, ','BO        55
     1IL','ER  ',28*'    '/                                                          56
      DATA LSIDE/27*'    ', PERC','ENT ',' ','    ','CAPA','CITI','ES, ','PL        57
     1AN','T   ',28*'    '/                                                          58
      DATA IISIDE/27*'    ' 'PERC','ENT ',' ','    ','CUMU','LATI','VE  ','B         59
     1OIL','ERS ',' ','    ','N MB','ER O','F   ',24*'    '/                        60
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```
      DATA JJSIDE/27*'     ' !PERC','ENT ',',     ','CUMU','LATI','VE  ','P      61
     1LAN','TS  ',',     ','N MB','ER O','F   ',24*'     '/                      62
      DATA KKSIDE/27*'     ' !PERC','ENT ',',     ','BOIL','ERS ',',     ','N    63
     1UMB','ER O','F   ',27 '     '/                                              64
      DATA LLSIDE/27*'     ' !PERC','ENT ',',     ','PLAN','TS  ',',     ','N    65
     1UMB','ER O','F   ',27 '     '/                                              66
      DATA CHRINS/'(1H1',',',6X',',','!BO','ILER',' POP','ULAT','ION ','DAT      67
     1A',' = C','OMME','RCI','L IN','STIT','UTIO','NAL ','BOIL','ERS ',          68
     1'     ',' !)'/                                                             69
      DATA AINDUS/'(1H1',',',63X',',','!BO','ILER',' POP','ULAT','ION ','DAT     70
     1A',' = I','NDUS','TRI','L BO','ILER','S   ',' !)',',     ',',     '       71
     1,'     ',' '/                                                             72
      DATA UTILIT/'(1H1',',',6X',',','!BO','ILER',' POP','ULAT','ION ','DAT      73
     1A',' = U','TILI','TY  ','POWE','R PL','ANT)',' BOI','LERS',',     ',      74
     1'     ',' !)'/                                                             75
      DO 10 L=1,19                                                              76
      BOILER(L,1)=CHRINS(L)                                                     77
      BOILER(L,2)=AINDUS(L)                                                     78
      BOILER(L,3)=UTILIT(L)                                                     79
      IF (L.GT.11) GO TO 10                                                     80
      LABEL(L,1)=ALFUEL(L)                                                      81
      LABEL(L,2)=ALCOAL(L)                                                      82
      LABEL(L,3)=RESOIL(L)                                                      83
      LABEL(L,4)=DISOIL(L)                                                      84
      LABEL(L,5)=ALLOIL(L)                                                      85
      LABEL(L,6)=NATGAS(L)                                                      86
      LABEL(L,7)=PROGAS(L)                                                      87
      LABEL(L,8)=COKE(L)                                                        88
      LABEL(L,9)=OTHER(L)                                                       89
      LABEL(L,10)=LPGGAS(L)                                                     90
      LABEL(L,11)=ALLGAS(L)                                                     91
      LABEL(L,12)=BAGGAS(L)                                                     92
      LABEL(L,13)=MULTFL(L)                                                     93
   10 CONTINUE                                                                  94
C      READ NUMBER OF PLANT  TO BE PROCESSED                                    95
C                                                                               96
      READ (1,30) ILAST                                                         97
      DO 2710 JRUN=1,13                                                         98
C                                                                               99
C      IRTYP = FUEL TYPE OR FUEL COMBINATIONS TO BE ANALYZED PER BOILER        100
C      IRUN = 1 RESULTS IN  RROR MESSAGES PRINTED FOR EACH FUEL, BOILER,       101
C         AND PLANT, IF IRU  IS NOT EQUAL TO 1, ONLY OVERSIZED BOILERS         102
C         AND PLANTS WILL B  NOTED IN ERROR MESSAGES                           103
C      ICODE = THE SCC CODE ASSOCIATED WITH THE CLASS OF BOILERS BEING          104
C         EXAMINED, AND IS  SED TO DETERMINE WHETHER THE BOILER IS IN          105
C         THE CORRECT CATEG RY (EG, UTILITY AS AN INDUSTRIAL, ETC,),           106
C      NPLANT = THE CATEGOR  OF PLANTS BEING ANALYZED, AND IS USED TO           107
C         PRODUCE HEADINGS  OR THE TABLES AND GRAPHS BY ASSIGNING              108
C         APPROPRIATE DATA  TATEMENTS TO THE VARIABLE CALLED HEADNG(LL),       109
C                                                                              110
      READ (1,30, END=2720) INTYP,IRUN,ICODE,NPLANT                            111
   30 FORMAT (4I5)                                                             112
      DO 40 LL=1,19                                                            113
      HEADNG(LL)=BOILER(LL,NPLANT)                                             114
      IF (LL.GT.11) GO TO 4                                                    115
      TITLE(LL)=LABEL(LL,IR YP)                                                116
   40 CONTINUE                                                                 117
      IND=0                                                                    118
      IPRINT=3                                                                 119
      WRITE (3,HEADNG)                                                         120
      WRITE (3,TITLE)                                                          121
      IND1=0                                                                   122
      IX1=1                                                                    123
      IX2=1                                                                    124
      ITAPE=8                                                                  125
      PLTCAP=0.                                                                126
```

```
      PLOFAC=0.
      ABVBLR=0.
      ABVPLT=0.
      NLGBLR=0
      NLGPLT=0
      BLF(1)=0.0
C
C       SET UP TABLE OF BOIL N LOAD FACTORS
C
      DO 50 LF=2,11
      BLF(LF)=BLF(LF-1)+0.1
   50 CONTINUE
      BLF(12)=1.001
      BLF(13)=BLF(12)
C       INITIALIZE VALUES
      DO 60 KP=1,30
      B(KP)=0.0
      CUM3(KP)=0.
      CUM4(KP)=0.
      CUM7(KP)=0.
      CUM8(KP)=0.
      DO 60 LF=1,13
      LPLANT(LF)=0
      KBOIL(LF)=0
      IBENTY(KP,LF)=0
      BENTY(KP,LF)=0
   60 CONTINUE
      PLF(1)=0.0
      DO 70 LF=2,13
      PLF(LF)=BLF(LF)
   70 CONTINUE
      CUM1(1)=0.
      CUM2(1)=0.
      CUM5(1)=0.
      CUM6(1)=0.
      DO 90 KM=1,35
      MKAP(KM)=0
      CUM1(KM+1)=0.
      CUM2(KM+1)=0.
      CUM5(KM+1)=0.
      CUM6(KM+1)=0.
      DO 90 LF=1,30
      IF (LF.GT.13) GO TO 8
      IPENTY(KM,LF)=0
      AVBPLT(KM,LF)=0.0
      PENTY(KM,LF)=0
   80 IF (KM.GT.34) GO TO 9
      ISENTY(KM,LF)=0
      BTUMAX(LF)=0.
      IF (LF.GT.25) GO TO 9
      BTUMAX(LF+25)=0.
   90 CONTINUE
      DO 100 K=1,60
      MAXBTU(K)=0.0
      DO 100 J=1,3
      ACTBTU(K,J)=0.0
      LOFACT(J)=0.0
  100 CONTINUE
C
C       CONSTRUCT TEST VALUE TABLE FOR STACK HEIGHTS
C
      IHT(1)=0
      DO 110 IS=2,11
  110 IHT(IS)=IHT(IS-1)+20
      DO 120 IS=12,27
  120 IHT(IS)=IHT(IS-1)+50
```

```
      IHT(28)=10000                                                          193
      JRTYP=IRTYP                                                            194
      IF (JRTYP.GE.13)JRTYP= 1                                               195
      DO 130 I=1,12                                                          196
  130 IAR(I)=IH(JRTYP,I)                                                     197
      JFUEL=0                                                                198
      M=0                                                                    199
      N=0                                                                    200
      J=0                                                                    201
      K=0                                                                    202
      L=0                                                                    203
      IBOIL=0                                                                204
      KK=0                                                                   205
      KN=0                                                                   206
      JJ=0                                                                   207
      IPLANT=0                                                               208
      LSTACK=0                                                               209
      LCAP(1)=0                                                              210
      DO 140 KP=2,11                                                         211
      LCAP(KP)=LCAP(KP-1)+1                                                  212
  140 CONTINUE                                                               213
      DO 150 KP=12,20                                                        214
      LCAP(KP)=LCAP(KP-1)+1 0                                                215
  150 CONTINUE                                                               216
      DO 160 KP=21,29                                                        217
      LCAP(KP)=LCAP(KP-1)+1 00                                               218
  160 CONTINUE                                                               219
      LCAP(30)=100000                                                        220
      DO 170 KM=1,29                                                         221
      LP(KM)=LCAP(KM)                                                        222
  170 CONTINUE                                                               223
      DO 180 KM=30,33                                                        224
      LP(KM)=LP(KM-1)+10000                                                  225
  180 CONTINUE                                                               226
      LP(34)=100000                                                          227
      IF (IRUN.NE.1) GO TO 190                                               228
      WRITE (3,HEADNG)                                                       229
      WRITE (3,TITLE)                                                        230
      WRITE (3,1570)                                                         231
      WRITE (3,1570)                                                         232
  190 N=N+1                                                                  233
      READ (ITAPE,200, END=980, ERR=500) (IDAT(I,N),I=1,6),ICARD             234
  200 FORMAT (I9,I4,4I2,58X I1)                                              235
      IF (ICARD.NE.1) GO TO 240                                              236
C                                                                            237
C *** READ PLANT NAME, OWNER , PERSON TO CONTACT, AND ICARD                  238
      READ (99,220) (IDAT(I N),I=1,6),(DAT(I,N),I=1,15),ICARD                239
  220 FORMAT (I9,I4,4I2,14A ,A2,I1)                                          240
      M=M+1                                                                  241
C                                                                            242
C *** WRITE PLANT NAME,PERS N TO CONTACT, OWNER, AND ICARD                   243
      IF (IRUN.EQ.1) WRITE  3,230) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),I     244
     1CARD                                                                   245
  230 FORMAT (1H0,I9,I4,4I2,2X,10A4,2X,6A4,2X,A2,I1)                         246
      JJ=1                                                                   247
      GO TO 410                                                              248
  240 IF (ICARD.NE.2) GO TO 260                                              249
      M=M+1                                                                  250
      WRITE (3,250) (IDAT(I N),I=1,4)                                        251
  250 FORMAT (1H0,'NO PLANT SOURCE RECORD FOR STACK # ',I9,I4,2I2)           252
      JJ=2                                                                   253
      GO TO 410                                                              254
  260 IF (ICARD.NE.3) GO TO 290                                              255
      M=M+1                                                                  256
      KK=K+1                                                                 257
      READ (99,270) JBOIL,I R,MAXBTU(K)                                      258
```

```
270 FORMAT (13X,2I2,F5.0)                                                       259
    WRITE (3,280) (IDAT(I,N),I=1,2),IYR,JBOIL                                   260
280 FORMAT (1H0,'NO PLANT SOURCE NOR STACK RECORD FOR MAX DESIGN RECOR          261
   1D   BOILER = ',I9,I4, I2)                                                   262
    MBOIL=JBOIL                                                                 263
    JJ=3                                                                        264
    IF (MAXBTU(K),EQ.0.)  GO TO 750                                             265
    IF (MAXBTU(K),EQ,1.0) K=1                                                   266
    GO TO 750                                                                   267
290 IF (ICARD,NE,4) GO TO 300                                                   268
300 IF (ICARD,NE,5) GO TO 330                                                   269
    READ (99,310) LBOIL,I R                                                     270
310 FORMAT (13X,I2,I2)                                                          271
    WRITE (3,320) (IDAT(I,N),I=1,2),LBOIL,IYR                                   272
320 FORMAT (1H0,'NO PLANT STACK,OR MAX DESIGN RECORDS FOR BOILER WITH           273
   1 ID NUMBER = ',I4,I9, I2,1H ,'MAXBTU SET = 1,0 IF ACTUAL BTU DATA           274
   1 IS AVAILABLE IN RECO D 6, "EXTRANEOUS DATA" ERROR GIVEN IF NO REC          275
   1ORD IS PRESENT')                                                            276
    GO TO 190                                                                   277
330 IF (ICARD,NE,6) GO TO 360                                                   278
    M=M+1                                                                       279
    K=K+1                                                                       280
    J=J+1                                                                       281
    READ (99,340) KBOIL6, YR,JCODE,IFUEL,RATE,HEAT                              282
340 FORMAT (13X,2I2,I3,I3*2X,F7,0,14X,F5.0)                                     283
    JBOIL6=KBOIL6                                                               284
    WRITE (3,350) (IDAT(I,N),I=1,2),KBOIL6,IYR                                  285
350 FORMAT (1H0,'NO PLANT STACK,OR MAX DESIGN RECORD FOR BOILER =',I9,          286
   1I4,2I2,'  MAXBTU SET   1,0 TO PROCESS ACTBTU RECORD')                       287
    MAXBTU(K)=1,0                                                               288
    GO TO 810                                                                   289
360 WRITE (3,370)                                                               290
370 FORMAT (1H0,'EXTRANEO S DATA')                                              291
    GO TO 190                                                                   292
380 CONTINUE                                                                    293
    WRITE (3,400)                                                               294
400 FORMAT (1H0,'NO DATA  VAILABLE')                                            295
    GO TO 860                                                                   296
410 N=N+1                                                                       297
    READ (ITAPE,200, END= 60, ERR=500) (IDAT(I,N),I=1,6),ICARD                  298
    IF (ICARD,NE,1) GO TO 440                                                   299
    IF ((JJ,EQ,6),AND,(JF EL,EQ,1)) GO TO 880                                   300
420 IF (IBOIL,EQ,1) GO TO 1070                                                  301
430 M=M+1                                                                       302
    IF (M,GT,ILAST) GO TO 860                                                   303
    K=0                                                                         304
    J=0                                                                         305
    N=1                                                                         306
    PLTCAP=0,                                                                   307
    READ (99,220) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),ICARD                     308
    IF (IRUN,EQ,1) WRITE  3,230) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),I          309
   1CARD                                                                        310
    JJ=1                                                                        311
    GO TO 410                                                                   312
440 IF (ICARD,NE,2) GO TO 480                                                   313
    IF ((JJ,EQ,6),AND,(JF EL,EQ,1)) GO TO 880                                   314
450 CONTINUE                                                                    315
    READ (99,460) JSTACK, YR,SHGHT,PHGHT,ICOMPT                                 316
460 FORMAT (13X,2I2,15X,F4,0,14X,F4,0,1X,I4)                                    317
    IF (IPLANT,NE,0) GO T  470                                                  318
    MSTACK=JSTACK                                                               319
    SHGHT1=SHGHT                                                                320
    PHGHT1=PHGHT                                                                321
    MCOMPT=ICOMPT                                                               322
    MS=1                                                                        323
    BTUMAX(MS)=0,                                                               324
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      IHGHT(MS)=0                                                          325
  470 JJ=2                                                                 326
      GO TO 410                                                            327
  480 IF (ICARD.NE.3) GO TO 490                                            328
      K=K+1                                                                329
      READ (99,270) JBOIL,I R,MAXBTU(K)                                    330
      MBOIL=JBOIL                                                          331
      JJ=3                                                                 332
      GO TO 410                                                            333
  490 IF (ICARD.EQ.4) GO TO 410                                            334
      IF (ICARD.EQ.5) GO TO 410                                            335
      IF (ICARD.EQ.6) GO TO 520                                            336
  500 WRITE (3,510)                                                        337
  510 FORMAT (1H0,'EXTRANEO S DATA READ')                                  338
      GO TO 410                                                            339
  520 IF (IRTYP.LE.12) GO T  540                                           340
      READ (ITAPE,200, END=530) (IDAT(I,N),I=1,6),ICARD                    341
      BACKSPACE ITAPE                                                      342
      IF ((ICARD.NE.6).AND. JFUEL.NE.1)) GO TO 410                         343
  530 BACKSPACE ITAPE                                                      344
      READ (ITAPE,200) (IDA (I,N),I=1,6),ICARD                             345
  540 CONTINUE                                                             346
      READ (99,340) KBOIL6, YR,JCODE,IFUEL,RATE,HEAT                       347
      JJ=6                                                                 348
      IF (IFUEL.GT.12)IFUEL 12                                             349
      IAR(IFUEL)=IR(IFUEL,J TYP)                                           350
      IF (IAR(IFUEL))  410,410,550                                         351
  550 J=J+1                                                                352
      IF ((JCODE.NE.ICODE), ND,(IRUN.EQ.1)) WRITE (3,560) (IDAT(I,N),I=1   353
     1,2),MBOILA,IYR,JCODE,ICODE                                           354
  560 FORMAT (1H0,'FUEL REC RD HAS INCORRECT BOILER TYPE FOR BOILER WITH   355
     1 ID = ',I9,I4,2I2,',  ODE FOUND WAS',I4,', BUT CODE EXPECTED WAS',  356
     1I4)                                                                  357
      IF (MAXBTU(K).LE.1000 ,) GO TO 580                                   358
      WRITE (3,1010) (IDAT( ,N-1),I=1,2),MBOIL,IYR,MAXBTU(K),K,M           359
      J=0                                                                  360
      K=K-1                                                                361
      DO 570 IRO=1,4                                                       362
      READ (ITAPE,200, END= 60, ERR=500) (IDAT(I,N),I=1,6),ICARD           363
      IF (ICARD.EQ.1) GO TO 420                                            364
      IF (ICARD.EQ.2) GO TO 450                                            365
  570 CONTINUE                                                             366
  580 IF (LSTACK.NE.0) GO T  670                                           367
      LSTACK=1                                                             368
      IF (IPLANT.NE.0) GO T  590                                           369
      IPLANT=1                                                             370
  590 IF (J.GT.1) GO TO 670                                                371
      IF (ICOMPT.EQ.0) GO T  600                                           372
      IF (ICOMPT.EQ.MCOMPT) GO TO 650                                      373
      MS=MS+1                                                              374
      BTUMAX(MS)=BTUMAX(MS) MAXBTU(K)                                      375
      IHGHT(MS)=AMAX1(SHGHT PHGHT)                                         376
      GO TO 670                                                            377
  600 IF (SHGHT.EQ.0) GO TO 610                                            378
      IF (SHGHT1.EQ.SHGHT)  0 TO 650                                       379
      MS=MS+1                                                              380
      BTUMAX(MS)=BTUMAX(MS) MAXBTU(K)                                      381
      IHGHT(MS)=SHGHT                                                      382
      GO TO 670                                                            383
  610 IF (PHGHT.EQ.0) GO TO 620                                            384
      IF (PHGHT1.EQ.PHGHT)  0 TO 650                                       385
      MS=MS+1                                                              386
      IHGHT(MS)=PHGHT                                                      387
      BTUMAX(MS)=BTUMAX(MS) MAXBTU(K)                                      388
      GO TO 670                                                            389
  620 IF (IRUN.NE.1) GO TO  40                                             390
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      IF ((SHGHT.EQ.0).AND. PHGHT.EQ.0)) WRITE (3,630) (IDAT(I,N),I=1,2)      391
     1,JSTACK,IYR,M,MS                                                        392
  630 FORMAT (1H0,'NO STACK OR PLUME HEIGHT FOR STACK WITH ID = ',I9,I4,      393
     1212,/,' PLANT NO.= ', 5,', STACK NO. SELECTED WITHIN PLANT = ',I3)      394
     1                                                                        395
  640 IF ((MS.EQ.1).AND.(IP ANT.EQ.1)) GO TO 650                              396
      MS=MS+1                                                                 397
      IHGHT(MS)=SHGHT                                                         398
  650 BTUMAX(MS)=BTUMAX(MS) MAXBTU(K)                                         399
      IF (IHGHT(MS).EQ.0)IH MT(MS)=AMAX1(SHGHT,PHGHT)                         400
  660 FORMAT (1H0,'BTUMAX(M ) = ',F10.0,' FOR STACK NO.',I3,' WITH HEIGH      401
     1T =',I4,' AT PLANT OB ERVATION NO. ',I5)                                402
  670 IF (RATE.NE.0) GO TO  90                                                403
      IF (IRUN.EQ.1) WRITE  3,680) (IDAT(I,N),I=1,2),KBOIL6,IYR,K,IFUEL       404
  680 FORMAT (1H0,'SCC PROC SS RATE = 0.0 FOR BOILER ID = ',I9,I4,2I2,'       405
     1K = ',I4,' FUEL TYPE = ',I3)                                            406
  690 IF (HEAT.NE.0.0) GO T  710                                              407
      IF (IRUN.EQ.1) WRITE  3,700) IFUEL,K,(IDAT(I,N),I=1,2),KBOIL6,IYR       408
  700 FORMAT (1H0,'NO HEAT  ONTENT FOR FUEL J = ',I3,' K = ',I4,' BOILER      409
     1 ID = ',I9,I4,2I2)                                                      410
  710 IF (JFUEL.EQ.1) GO TO 810                                               411
      IF (MAXBTU(K).EQ.1.0) K=1                                               412
C***COMPUTE MAXIMUM CAPACIT  FOR PLANT(BOILERS 1 THROUGH K)                   413
      PLTCAP=PLTCAP+MAXBTU( )                                                 414
      IF (MAXBTU(K).NE.0.0) GO TO 750                                         415
      KP=1                                                                    416
      B(KP)=B(KP)+MAXBTU(K)                                                   417
  730 MAXBTU(K)=1.0                                                           418
      IF (IRUN.EQ.1) WRITE  3,740) (IDAT(I,N),I=1,2),MBOIL,IYR,K              419
  740 FORMAT (1H0,'MAX DESI N RECORD HAS NO CAPACITY FOR BOILER =',I9,I4      420
     1,2I2,2X,'K= ',I5,2X,' AXIMUM DESIGN SET = 1.0')                         421
      GO TO 770                                                               422
  750 DO 760 KP=2,30                                                          423
      IF (MAXBTU(K).LE.LCAP KP)) GO TO 770                                    424
  760 CONTINUE                                                                425
  770 IF (KP.EQ.1) GO TO 78                                                   426
      B(KP)=B(KP)+MAXBTU(K)                                                   427
  780 MBOIL=JBOIL                                                             428
      IF (JJ.LE.2) GO TO 79                                                   429
      I=1                                                                     430
      GO TO 800                                                               431
  790 I=2                                                                     432
  800 JJ=6                                                                    433
C***COMPUTE FUEL LOAD FACTO  FOR FUEL TYPE                                    434
  810 IF (JFUEL.EQ.1) GO TO 830                                               435
      IF (MAXBTU(K).NE.1.0) GO TO 830                                         436
      IF (KK.EQ.1) GO TO 85                                                   437
      MAXBTU(K)=MAXBTU(K)/8 60.                                               438
  830 ACTBTU(K,J)=RATE*HEAT                                                   439
      LDFACT(J)=ACTBTU(K,J) (MAXBTU(K)*8760.)                                 440
      IF (LDFACT(J).LT.1.0) GO TO 850                                         441
      IF (IRUN.EQ.1) WRITE  3,840) K,LDFACT(J),IFUEL,(IDAT(I,N),I=1,2),K      442
     1BOIL6,IYR                                                               443
  840 FORMAT (1H0,'FUEL LOA  FACTOR FOR BOILER K =',I4,' IS ',F10.0,' FU      444
     1EL TYPE =',I3,' BOILE  ID = ',I9,I4,2I2)                                445
  850 MBOIL6=KBOIL6                                                           446
      JFUEL=1                                                                 447
      IBOIL=1                                                                 448
      GO TO 810                                                               449
  860 CONTINUE                                                                450
      KN=1                                                                    451
      IF (JFUEL.EQ.0) GO TO 1300                                              452
  880 BLDFAC(K)=0.0                                                           453
C***COMPUTE LOAD FACTOR FOR BOILER K(FUELS 1 THRUUGH J)                       454
      DO 890 IK=1,J                                                           455
      BLDFAC(K)=BLDFAC(K)+LDFACT(IK)                                          456
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 890 CONTINUE                                                                    457
     IF (BLDFAC(K),LT,1,0) GO TO 910                                             458
     IF (IRUN,EQ,1) WRITE  3,900) J,M,K,(IDAT(I,N-1),I=1,2),KBOILG,IYR,          459
    1BLDFAC(K)                                                                   460
 900 FORMAT (1H0,'BOILER L AD FACTOR FOR J = ',I2,' FUELS IS ,EQ, OR ,G          461
    1T, 1,0 M= ',I4,' K= ' I3,' BOILER ID = ',I9,I4,2I2,' LOAD FACTOR =          462
    1',F10,0)                                                                    463
 910 IF (BLDFAC(K),NE,BLF( )) GO TO 920                                          464
     LF=1                                                                        465
     GO TO 960                                                                   466
 920 DO 930 LF=2,11                                                              467
     IF (BLDFAC(K),LT,BLF( F)) GO TO 960                                         468
 930 CONTINUE                                                                    469
     IF (BLDFAC(K),EQ,BLF( 1)) GO TO 940                                         470
     IF (BLDFAC(K),GT,BLF( 1)) GO TO 950                                         471
     GO TO 960                                                                   472
 940 LF=12                                                                       473
     GO TO 960                                                                   474
 950 LF=13                                                                       475
 960 KBOIL(LF)=KBOIL(LF)+1                                                       476
     IBENTY(KP,LF)=IBENTY( P,LF)+B(KP)                                           477
     BENTY(KP,LF)=BENTY(KP LF)+1                                                 478
     IF (LF,LT,1,OR,LF,GT, 3) GO TO 980                                          479
     GO TO 1000                                                                  480
 980 WRITE (3,990) LF                                                            481
 990 FORMAT (1H0,'TEST FOR BOILER LOAD FACTOR INDEX RANGE HAS FAILED, L          482
    1OAD FACTOR INDEX = ', 3)                                                    483
1000 IX2=1                                                                       484
     IF (MAXBTU(K),LE,1000 ,) GO TO 1030                                         485
     WRITE (3,1010) (IDAT( ,N=1),I=1,2),MBOIL,IYR,MAXBTU(K),K,M                  486
1010 FORMAT (1H0,'BOILER WITH ID = ',I9,I4,2I2,' HAS CAPACITY OVER 1000          487
    10 MBTU''S/HR, CAPACIT  =',F6,0,' BOILER NO, =',I3,' IN PLANT NO, =          488
    1',I5,/,'  BOILER DATA WILL NOT BE INCLUDED IN GRAPHIC OUTPUT')              489
     IF ((LF,GT,1,AND,LF,L ,12),AND,(KP,GT,1))ABVBLR=ABVBLR+MAXBTU(K)            490
     IF ((LF,GT,1,AND,LF,L ,12),AND,(KP,GT,1))NLGBLR=NLGBLR+1                    491
     DO 1020 I=LF,11                                                             492
1020 CUM2(I)=CUM2(I)+MAXBT (K)                                                   493
     GO TO 1050                                                                  494
1030 IF (MAXBTU(K),GT,0,)I 2=6,+ALOG10(MAXBTU(K))+1,0                           495
     IF (IX2,LT,1)IX2=1                                                          496
     CUM4(IX2)=CUM4(IX2)+M XBTU(K)                                               497
     CUM8(IX2)=CUM8(IX2)+1                                                       498
1040 FORMAT (1H0,'IX2 = ', 5,' CUM4(IX2) =',F12,0,' MAXBTU(K) = ',F12,0          499
    1,' K = ',I5,' S = 212 )                                                     500
     IF ((LF,EQ,1),OR,(KP, Q,1))CUM8(IX2)=CUM8(IX2)+1,                           501
     IF ((LF,GT,11),AND,(K ,GT,1))CUM8(IX2)=CUM8(IX2)+1,                         502
     IF ((LF,EQ,1),OR,((LF GT,11),AND,(KP,GT,1)))CUM4(IX2)=CUM4(IX2)+MA          503
    1XBTU(K)                                                                     504
1050 DO 1060 L=1,KP                                                              505
1060 B(L)=0,0                                                                    506
     IF (ICARD,EQ,1) GO TO 1070                                                  507
     IF (ICARD,EQ,2)J=0                                                          508
     JFUEL=0                                                                     509
     IF (KN,EQ,1) GO TO 10 0                                                     510
     KK=0                                                                        511
     LSTACK=0                                                                    512
     MSTACK=JSTACK                                                               513
     SHGHT1=SHGHT                                                                514
     PHGHT1=PHGHT                                                                515
     MCOMPT=ICOMPT                                                               516
     IPLANT=IPLANT+1                                                             517
     GO TO 450                                                                   518
1070 CONTINUE                                                                    519
     IF (PLTCAP,NE,LP(1))  O TO 1080                                             520
     KM=1                                                                        521
     GO TO 1100                                                                  522
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 1080 DO 1090 KM=2,34                                                          523
      IF (PLTCAP.LE.LP(KM)) GO TO 1100                                         524
 1090 CONTINUE                                                                 525
 1100 MKAP(KM)=MKAP(KM)+1                                                      526
C***COMPUTE LOAD FACTOR FOR PLANT M(BOILERS 1 THROUGH K)                       527
      PLDFAC=0.                                                                528
      DO 1110 J=1,K                                                            529
      DO 1110 L=1,3                                                            530
      PLDFAC=PLDFAC+ACTBTU( K,L)                                               531
 1110 CONTINUE                                                                 532
      IF (PLTCAP.NE.0.) GO  O 1130                                             533
      IF (IRUN.EQ.1) WRITE  3,1120) (IDAT(I,N-1),I=1,6),M,K                    534
 1120 FORMAT (1H0,'NO PLANT CAPACITY FOR PLANT= ',I9,I4,4I2,'  M= ',I5,'       535
     1 K= ',I4,'  MAXIMUM C PACITY SET = 1.0')                                 536
      PLTCAP=1.0/8760.                                                         537
 1130 PLDFAC=PLDFAC/(PLTCAP 8760.)                                             538
      IF (PLDFAC.NE.PLF(1)) GO TO 1140                                         539
      LF=1                                                                     540
      GO TO 1200                                                               541
 1140 DO 1150 LF=2,11                                                          542
      IF (PLDFAC.LT.PLF(LF)  GO TO 1200                                        543
 1150 CONTINUE                                                                 544
      IF (PLDFAC.EQ.PLF(11)  GO TO 1160                                        545
      IF (PLDFAC.GT.PLF(11)  GO TO 1170                                        546
 1160 LF=12                                                                    547
      GO TO 1180                                                               548
 1170 LF=13                                                                    549
 1180 IF (IRUN.EQ.1) WRITE  3,1190) K,M,(IDAT(I,N-1),I=1,2),KBUILD,IYR,P       550
     1LDFAC                                                                    551
 1190 FORMAT (1H0,'PLANT LO D FACTOR .EQ. OR .GT. 1.0 FOR K = ',I4,' BOI       552
     1LERS,  M =',I5,' PLAN  ID = ',I9,I4,2I2,' LOAD FACTOR =',F10.0)          553
 1200 LPLANT(LP)=LPLANT(LP) 1                                                  554
      IF (LF.LT.1.OR.LF.GT. 3) GO TO 1210                                      555
      GO TO 1230                                                               556
 1210 WRITE (3,1220) LF                                                        557
 1220 FORMAT (1H0,'TEST FOR PLANT LOAD FACTOR INDEX RANGE HAS FAILED, LO       558
     1AD FACTOR INDEX = ',I )                                                  559
 1230 IF (PLTCAP.LE.100000.  GO TO 1270                                        560
      DO 1250 MP=1,K                                                           561
      IF (MAXBTU(MP).GT.100 0.) WRITE (3,1240) M,(IDAT(I,N-1),I=1,6),MP,       562
     1MAXBTU(MP)                                                               563
 1240 FORMAT (1H0,'PLANT NO  ',I5,' WITH ID NO. ',I9,I4,4I2,' HAS CAPACI       564
     1TY GREATER THAN 100,0 0 MBTU''S/HR.',/,' BUILER NO.',I3,' HAS CAPA       565
     1CITY = ',F6.0,' MBTU' S/HR,   PLANT CAPACITY DATA WILL NOT BE INCL       566
     1UDED IN GRAPHIC OUTPU ,')                                                567
 1250 CONTINUE                                                                 568
      IF ((LF.GT.1.AND.LF.L .12).AND.(KM.GT.1))ABVPLT=ABVPLT+PLTCAP            569
      IF ((LF.GT.1.AND.LF.L .12).AND.(KM.GT.1))NLGPLT=NLGPLT+1                 570
      DO 1260 I=LF,11                                                          571
 1260 CUM1(I)=CUM1(I)+PLTCA                                                    572
      GO TO 1280                                                               573
 1270 IX1=1                                                                    574
      IF (PLTCAP.GT.0.)IX1= .*ALOG10(PLTCAP)+1.0                               575
      IF (IX1.LT.1)IX1=1                                                       576
      CUM3(IX1)=CUM3(IX1)+P TCAP                                               577
      CUM7(IX1)=CUM7(IX1)+1                                                    578
      IF ((LF.EQ.1).OR.(KM. 0.1))CUM7(IX1)=CUM7(IX1)-1.                        579
      IF ((LF.GT.11).AND.(K .GT.1))CUM7(IX1)=CUM7(IX1)-1.                      580
      IF ((LF.EQ.1).OR.((LF GT.11).AND.(KM.GT.1)))CUM3(IX1)=CUM3(IX1)-PL       581
     1TCAP                                                                     582
 1280 IF (KM.EQ.1)PLTCAP=0.                                                    583
      IPENTY(KM,LF)=IPENTY( M,LF)+PLTCAP                                       584
      AVBPLT(KM,LF)=AVBPLT( M,LF)+K                                            585
      PENTY(KM,LF)=PENTY(KM LF)+1                                              586
      DO 1290 I=1,K                                                            587
      BLDFAC(I)=0.0                                                            588
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      MAXBTU(I)=0.0                                                          589
      DO 1290 L=1,3                                                          590
      ACTBTU(I,L)=0.0                                                        591
 1290 CONTINUE                                                               592
 1300 CONTINUE                                                               593
      LK=0                                                                   594
 1310 LK=LK+1                                                                595
      DO 1320 IT=1,28                                                        596
      IF (IHGHT(LK).LE.IHT( I)) GO TO 1330                                   597
 1320 CONTINUE                                                               598
 1330 DO 1340 IH=1,34                                                        599
      IF (BTUMAX(LK).LE.LP( H)) GO TO 1350                                   600
 1340 CONTINUE                                                               601
 1350 ISENTY(IH,IT)=ISENTY( H,IT)+1                                          602
      IF (LK.LT.MS) GO TO 1310                                               603
      DO 1370 MK=1,MS                                                        604
 1360 FORMAT (1H0,'BTUMAX(M ) = ',F10.0,' FOR STACK NO.',I3,' WITH HEIGH     605
     1T = ',I4,' AT PLANT O SERVATION NO.',I5)                               606
      BTUMAX(MK)=0.                                                          607
 1370 IHGHT(MK)=0                                                            608
      MS=1                                                                   609
      IPLANT=0                                                               610
      LSTACK=0                                                               611
      K=0                                                                    612
      J=0                                                                    613
      JFUEL=0                                                                614
      IBOIL=0                                                                615
      KK=0                                                                   616
      N=1                                                                    617
      IF (KN.EQ.1) GO TO 13 0                                                618
      IF (N.LT.ILAST) GO TO 430                                              619
C***COMPUTE ROW AND COLUMN  NTRIES FOR BOILER CAPACITIES & LOAD FACTORS       620
 1380 WRITE (3,HEADNG)                                                       621
 1390 FORMAT (1H1,36X,'BOIL R POPULATION DATA - COMMERCIAL/INSTITUTIONAL     622
     1 BOILERS')                                                             623
      WRITE (3,1400)                                                         624
 1400 FORMAT (1H ,46X,'BOIL R CAPACITY BY BOILER LOAD FACTOR')               625
      WRITE (3,TITLE)                                                        626
      WRITE (3,1570)                                                         627
      WRITE (3,1410)                                                         628
 1410 FORMAT (1H ,48X,'TABL  ENTRIES ARE NUMBER OF BOILERS')                 629
      WRITE (3,2270)                                                         630
      WRITE (3,1420)                                                         631
 1420 FORMAT (1H0,52X,'BOIL R LOAD FACTORS')                                 632
      WRITE (3,1430)                                                         633
 1430 FORMAT (1H ,3X,'CAPAC TY',7X,'    EQUAL       0.01-       0.10-      634
     1 0.20-       0.30-       0.40-       0.50-       0.60-       0.70-')  635
      WRITE (3,1440)                                                         636
 1440 FORMAT (1H ,2X,'MBTU' S/HR',8X,'   0.00        0.09        0.19       637
     1  0.29        0.39        0.49        0.59        0.69        0.79')  638
      DO 1450 IJ=1,30                                                        639
      DO 1450 IK=14,17                                                       640
      IBENTY(IJ,IK)=0.                                                       641
      BENTY(IJ,IK)=0                                                         642
 1450 CONTINUE                                                               643
      DO 1470 IJ=1,30                                                        644
      DO 1470 IK=1,13                                                        645
      IF (IK.GT.11) GO TO 1460                                               646
      IBENTY(IJ,14)=IBENTY( J,14)+IBENTY(IJ,IK)                              647
      BENTY(IJ,14)=BENTY(IJ 14)+BENTY(IJ,IK)                                 648
      GO TO 1470                                                             649
 1460 IBENTY(IJ,15)=IBENTY( J,14)+IBENTY(IJ,IK)                              650
      BENTY(IJ,15)=BENTY(IJ 14)+BENTY(IJ,IK)                                 651
 1470 CONTINUE                                                               652
      IBENTY(1,16)=0.                                                        653
      IBENTY(1,17)=0.                                                        654
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      BENTY(1,16)=0                                                          655
      BENTY(1,17)=0                                                          656
      DO 1480 IJ=2,30                                                        657
      IBENTY(IJ,16)=IBENTY( J,16)+IBENTY(IJ,14)+IBENTY(IJ-1,16)              658
      IBENTY(IJ,17)=IBENTY( J,17)+IBENTY(IJ,15)+IBENTY(IJ-1,17)              659
      BENTY(IJ,16)=BENTY(IJ 16)+BENTY(IJ,14)+BENTY(IJ-1,16)                  660
      BENTY(IJ,17)=BENTY(IJ 17)+BENTY(IJ,15)+BENTY(IJ-1,17)                  661
 1480 CONTINUE                                                               662
      DO 1490 KL=15,17                                                       663
      ICOLTT(KL)=0                                                           664
      ICUMCL(KL)=0                                                           665
      COLTT(KL)=0                                                            666
      CUMCL(KL)=0                                                            667
 1490 CONTINUE                                                               668
      DO 1510 IK=1,14                                                        669
      ICOLTT(IK)=0                                                           670
      ICUMCL(IK)=0                                                           671
      COLTT(IK)=0                                                            672
      CUMCL(IK)=0                                                            673
      DO 1510 IJ=1,30                                                        674
      ICOLTT(IK)=ICOLTT(IK) IBENTY(IJ,IK)                                    675
      COLTT(IK)=COLTT(IK)+B NTY(IJ,IK)                                       676
      IF (IK.GT.11) GO TO 1500                                               677
      ICOLTT(16)=ICOLTT(16) IBENTY(IJ,IK)                                    678
      COLTT(16)=COLTT(16)+B NTY(IJ,IK)                                       679
 1500 IF (IK.GT.13) GO TO 1 10                                               680
      ICOLTT(15)=ICOLTT(15) IBENTY(IJ,IK)                                    681
      COLTT(15)=COLTT(15)+B NTY(IJ,IK)                                       682
      ICOLTT(17)=ICOLTT(17) IBENTY(IJ,IK)                                    683
      COLTT(17)=COLTT(17)+B NTY(IJ,IK)                                       684
 1510 CONTINUE                                                               685
      ICUMCL(1)=0.                                                           686
      CUMCL(1)=0                                                             687
      DO 1520 IK=2,13                                                        688
      CUMCL(IK)=COLTT(IK)+C MCL(IK-1)                                        689
 1520 ICUMCL(IK)=ICOLTT(IK) ICUMCL(IK-1)                                     690
      ICUMCL(14)=ICOLTT(14) ICOLTT(1)                                        691
      ICUMCL(15)=ICOLTT(15)                                                  692
      ICUMCL(16)=ICOLTT(16)                                                  693
      ICUMCL(17)=ICOLTT(17)                                                  694
      CUMCL(14)=COLTT(14)+C LTT(1)                                           695
      CUMCL(15)=COLTT(15)                                                    696
      COLTT(16)=COLTT(16)+C LTT(1)                                           697
      CUMCL(16)=COLTT(16)                                                    698
      CUMCL(17)=COLTT(17)                                                    699
      WRITE (3,1530) (BENTY 1,II),II=1,9)                                    700
 1530 FORMAT (1H0,' EQUAL      0',4X,9(2X,I9))                              701
      LCAP(1)=LCAP(1)+1                                                      702
      NUM=1                                                                  703
      DO 1580 I=2,30                                                         704
      WRITE (3,1550) LCAP(I-1),LCAP(I)                                       705
 1550 FORMAT (1H ,I5,'-',I5                                                  706
      LCAP(I)=LCAP(I)+1                                                      707
      WRITE (3,1560) (BENTY I,II),II=1,9)                                    708
 1560 FORMAT (1H+,16X,9(2X, 9))                                              709
      IF (I/5.LT.NUM) GO TO 1580                                             710
      NUM=NUM+1                                                              711
      WRITE (3,1570)                                                         712
 1570 FORMAT (1H )                                                           713
 1580 CONTINUE                                                               714
      WRITE (3,1590) (COLTT IK),IK=1,9)                                      715
 1590 FORMAT (1H0,'COLUMN TnTAL8',3X,9(2X,I9))                               716
      WRITE (3,1600) (CUMCL IK),IK=1,9)                                      717
 1600 FORMAT (1H ,'CUMUL. T TAL3',3X,9(2X,I9))                               718
C***PRINT SECOND HALF OF TA LE FOR NUMBER OF BUILERS BY CAPIY AND L.F.       719
      WRITE (3,HEADNG)                                                       720
```

```
      WRITE (3,2000)
      WRITE (3,TITLF)
      WRITE (3,1570)
      WRITE (3,1410)
      WRITE (3,2270)
      WRITE (3,1420)
      WRITE (3,1610)
 1610 FORMAT (1H ,3X,'CAPAC TY',13X,'     0.80-          0.90-          TOTAL
     1          EQUAL          BOVE          ROW          CUMTOT         CUMTOT
     1')
      WRITE (3,1620)
 1620 FORMAT (1H ,2X,'MBTU' S/HR',17X,'0.89          0.99          <1.00
     1        1.00          1. 0          TOTAL          <1.00          ALL')
      WRITE (3,1630) (BENTY 1,II),II=10,11),BENTY(1,14),(BENTY(1,II),II=
     112,13),(BENTY(1,II),I =15,17)
 1630 FORMAT (1H0,' EQUAL      0',11X,8(I9,4X))
      NUM=1
      DO 1640 I=2,30
 1640 LCAP(I)=LCAP(I)-1
      DO 1660 J=2,30
      WRITE (3,2090) LCAP(J-1),LCAP(J)
      LCAP(J)=LCAP(J)+1
      WRITE (3,1650) (BENTY J,II),II=10,11),BENTY(J,14),(BENTY(J,II),II=
     112,13),(BENTY(J,II),I =15,17)
 1650 FORMAT (1H+,23X,8(I9, X))
      IF (J/5.LT.NUM) GO TO 1660
      NUM=NUM+1
      WRITE (3,1570)
 1660 CONTINUE
      WRITE (3,1670) (COLTT IK),IK=10,11),COLTT(14),(COLTT(IK),IK=12,13)
     1,(COLTT(IK),IK=15,17)
 1670 FORMAT (1H ,'COLUMN T TALS',10X,8(I9,4X))
      WRITE (3,1680) (CUMCL IK),IK=10,11),CUMCL(14),(CUMCL(IK),IK=12,13)
     1,(CUMCL(IK),IK=15,17)
 1680 FORMAT (1H ,'CUMUL. T TALS',10X,8(I9,4X))
      TOT2=ICUMCL(14)-ABVBL
      TOT1=ICUMCL(17)
      TOT6=CUMCL(14)-NLGBLR
      TOT5=CUMCL(17)
      DO 1690 IK=1,11
      CUM2(IK)=ICUMCL(IK)+C M2(IK)
      IF (TOT2.EQ.0.) GO TO 1700
      CUM2(IK)=CUM2(IK)*100 /TOT2
 1690 CUM5(IK)=CUMCL(IK)
C***WRITE HEADINGS FOR FIRS  HALF OF TABLE OF PLANTS BY LOAD FACTORS
 1700 WRITE (3,HEADNG)
      WRITE (3,1710)
 1710 FORMAT (1H ,47X,'PLAN  CAPACITY BY PLANT LOAD FACTOR')
      WRITE (3,TITLE)
      WRITE (3,1570)
      WRITE (3,1860)
      WRITE (3,2270)
      WRITE (3,2230)
      WRITE (3,1430)
      WRITE (3,1440)
C***INITIALIZE TABLE EXTENS ON TO NUMBERS OF PLANTS WITHIN CAP'Y & L.F.
      DO 1720 IJ=1,34
      DO 1720 IK=14,17
      IPENTY(IJ,IK)=0.
      PENTY(IJ,IK)=0
      AVBPLT(IJ,IK)=0.0
 1720 CONTINUE
      DO 1740 KM=1,34
      DO 1740 LF=1,13
      IF (LF.GT.11) GO TO 1 30
      IPENTY(KM,14)=IPENTY( M,14)+IPENTY(KM,LF)
```

```
      AVBPLT(KM,14)=AVBPLT( M,14)+AVBPLT(KM,LF)                          787
      PENTY(KM,14)=PENTY(KM 14)+PENTY(KM,LF)                             788
      GO TO 1740                                                         789
 1730 IPENTY(KM,15)=IPENTY( M,14)+IPENTY(KM,LF)                          790
      PENTY(KM,15)=PENTY(KM 14)+PENTY(KM,LF)                             791
      AVBPLT(KM,15)=AVBPLT( M,14)+AVBPLT(KM,LF)                          792
 1740 CONTINUE                                                           793
      IPENTY(1,16)=0.                                                    794
      IPENTY(1,17)=0.                                                    795
      PENTY(1,16)=0                                                      796
      PENTY(1,17)=0                                                      797
      AVBPLT(1,16)=0.0                                                   798
      AVBPLT(1,17)=0.0                                                   799
      DO 1750 KM=2,34                                                    800
      IPENTY(KM,16)=IPENTY( M,16)+IPENTY(KM,14)+IPENTY(KM-1,16)          801
      IPENTY(KM,17)=IPENTY( M,17)+IPENTY(KM,15)+IPENTY(KM-1,17)          802
      AVBPLT(KM,16)=AVBPLT( M,16)+AVBPLT(KM,14)+AVBPLT(KM-1,16)          803
      PENTY(KM,16)=PENTY(KM 16)+PENTY(KM,14)+PENTY(KM-1,16)              804
      PENTY(KM,17)=PENTY(KM 17)+PENTY(KM,15)+PENTY(KM-1,17)              805
      AVBPLT(KM,17)=AVBPLT( M,17)+AVBPLT(KM,15)+AVBPLT(KM-1,17)          806
 1750 CONTINUE                                                           807
      DO 1760 KL=15,17                                                   808
      COLTT(KL)=0                                                        809
      CUMCL(KL)=0                                                        810
      ACOLTT(KL)=0.0                                                     811
 1760 CONTINUE                                                           812
      DO 1790 IK=1,14                                                    813
      COLTT(IK)=0                                                        814
      ACOLTT(IK)=0.0                                                     815
      CUMCL(IK)=0                                                        816
      DO 1790 IJ=1,34                                                    817
      COLTT(IK)=COLTT(IK)+P NTY(IJ,IK)                                   818
      ACOLTT(IK)=ACOLTT(IK)+AVBPLT(IJ,IK)                                819
      IF (IK.GT.11) GO TO 1 80                                           820
      COLTT(16)=COLTT(16)+P NTY(IJ,IK)                                   821
      ACOLTT(16)=ACOLTT(16) AVBPLT(IJ,IK)                                822
      GO TO 1790                                                         823
 1780 COLTT(15)=COLTT(15)+P NTY(IJ,IK)                                   824
      COLTT(17)=COLTT(17)+P NTY(IJ,IK)                                   825
      ACOLTT(17)=ACOLTT(17) AVBPLT(IJ,IK)                                826
 1790 CONTINUE                                                           827
      DO 1830 IJ=1,34                                                    828
      ACOLTT(15)=ACOLTT(15) AVBPLT(IJ,IK)                                829
      IF (PENTY(IJ,15).EQ.0  GO TO 1800                                  830
      AVBPLT(IJ,15)=AVBPLT( J,15)/PENTY(IJ,15)                           831
 1800 IF (PENTY(IJ,16).EQ.0  GO TO 1810                                  832
      AVBPLT(IJ,16)=AVBPLT( J,16)/PENTY(IJ,16)                           833
 1810 IF (PENTY(IJ,17).EQ.0  GO TO 1820                                  834
      AVBPLT(IJ,17)=AVBPLT( J,17)/PENTY(IJ,17)                           835
 1820 DO 1830 IK=1,14                                                    836
      IF (PENTY(IJ,IK).EQ.0  GO TO 1830                                  837
      AVBPLT(IJ,IK)=AVBPLT( J,IK)/PENTY(IJ,IK)                           838
 1830 CONTINUE                                                           839
      CUMCL(1)=0                                                         840
      AVBPLT(1,16)=0.0                                                   841
      AVBPLT(1,17)=0.0                                                   842
      DO 1840 IK=2,13                                                    843
      CUMCL(IK)=COLTT(IK)+C MCL(IK-1)                                    844
 1840 CONTINUE                                                           845
      CUMCL(14)=COLTT(14)+C LTT(1)                                       846
      CUMCL(15)=COLTT(15)                                                847
      COLTT(16)=COLTT(16)+C LTT(1)                                       848
      ACOLTT(16)=ACOLTT(16) ACOLTT(1)                                    849
      CUMCL(16)=COLTT(16)                                                850
      CUMCL(17)=COLTT(17)                                                851
C***PRINT TABLE ENTRIES--FI ST HALF OF PLANTS\ BY CAPIY & LOAD FACTOR     852
```

```
      WRITE (3,1530) (PENTY 1,II),II=1,9)                                    853
      LP(1)=LP(1)+1                                                          854
      NUM=1                                                                  855
      DO 1850 I=2,34                                                         856
      WRITE (3,1550) LP(I-1 ,LP(I)                                           857
      LP(I)=LP(I)+1                                                          858
      WRITE (3,1560) (PENTY I,II),II=1,9)                                    859
      IF (I/5.LT.NUM) GO TO 1850                                             860
      NUM=NUM+1                                                              861
      WRITE (3,1570)                                                         862
 1850 CONTINUE                                                               863
      WRITE (3,1590) (COLTT IK),IK=1,9)                                      864
      WRITE (3,1600) (CUMCL IK),IK=1,9)                                      865
C***PRINT SECOND HALF OF TA LE--PLANTS BY CAP'Y AND LOAD FACTOR              866
      WRITE (3,HEADNG)                                                       867
      WRITE (3,1710)                                                         868
      WRITE (3,TITLE)                                                        869
      WRITE (3,1570)                                                         870
      WRITE (3,1860)                                                         871
 1860 FORMAT (1H ,48X,'TABL  ENTRIES ARE NUMBER OF PLANTS')                  872
      WRITE (3,2270)                                                         873
      WRITE (3,2230)                                                         874
      WRITE (3,1610)                                                         875
      WRITE (3,1620)                                                         876
      WRITE (3,1630) (PENTY 1,II),II=10,11),PENTY(1,14),(PENTY(1,II),II=     877
     112,13),(PENTY(1,II),I =15,17)                                          878
      NUM=1                                                                  879
      DO 1870 I=2,34                                                         880
 1870 LP(I)=LP(I)-1                                                          881
      DO 1880 J=2,34                                                         882
      WRITE (3,2090) LP(J-1 ,LP(J)                                           883
      WRITE (3,1650) (PENTY J,II),II=10,11),PENTY(J,14),(PENTY(J,II),II=     884
     112,13),(PENTY(J,II),I =15,17)                                          885
      LP(J)=LP(J)+1                                                          886
      IF (J/5.LT.NUM) GO TO 1880                                             887
      NUM=NUM+1                                                              888
      WRITE (3,1570)                                                         889
 1880 CONTINUE                                                               890
      WRITE (3,1570)                                                         891
      WRITE (3,1670) (COLTT IK),IK=10,11),COLTT(14),(COLTT(IK),IK=12,13)     892
     1,(COLTT(IK),IK=15,17)                                                  893
      WRITE (3,1680) (CUMCL IK),IK=10,11),CUMCL(14),(CUMCL(IK),IK=12,13)     894
     1,(CUMCL(IK),IK=15,17)                                                  895
      DO 1890 IK=2,30                                                        896
      CUM7(IK)=CUM7(IK)+CUM (IK-1)                                           897
      CUM8(IK)=CUM8(IK)+CUM (IK-1)                                           898
      CUM3(IK)=CUM3(IK)+CUM (IK-1)                                           899
 1890 CUM4(IK)=CUM4(IK)+CUM (IK-1)                                           900
      TOT8=CUMCL(14)-NLGPLT                                                  901
      TOT7=CUMCL(17)                                                         902
      IF ((TOT6.EQ.0.).OR.( OT8.EQ.0.)) GO TO 1910                           903
      DO 1900 IK=1,30                                                        904
      CUM7(IK)=CUM7(IK)*100 /TOT8                                            905
 1900 CUM8(IK)=CUM8(IK)*100 /TOT6                                            906
C***CALL PLOTS FOR CUMULATI E AND DENSITY DISTRIBUTIONS OF BOILS & PLTS,     907
 1910 WRITE (3,HEADNG)                                                       908
      WRITE (3,TITLE)                                                        909
      WRITE (3,1920)                                                         910
 1920 FORMAT (47X,'BOILER A D PLANT NUMBER DISTRIBUTIONS',//,'      X--IN  911
     1DIVIDUAL BOILERS',/,'      *--INDIVIDUAL PLANTS')                     912
      TOTT5=TOT5                                                             913
      TOTT6=TOT6                                                             914
      TOTT7=TOT7                                                             915
      TOTT8=TOT8                                                             916
      IF ((TOT6.EQ.0.).OR.( OT8.EQ.0.)) GO TO 1980                           917
      CALL PLOT1(CUM8,CUM7, ND,TOTT5,TOTT6,TOTT7,TOTT8)                      918
```

```
      WRITE (IPRINT,1930) T T5,TOT6,TOT7,TOT8                          919
 1930 FORMAT (!     NUMBER OF BOILERS (ALL DATA) = !,I9,!     NUMBER OF BO  920
     1ILERS (RELIABLE DATA) = !,I9,//,!      NUMBER OF PLANTS (ALL DATA) =  921
     1 !,I9,!      NUMBER OF PLANTS (RELIABLE DATA) = !,I9)                 922
      DO 1940 IK=1,11                                                  923
 1940 CUM6(IK)=CUMCL(IK)                                               924
      DO 1950 IK=1,11                                                  925
      CUM5(IK)=CUM5(IK)*100 /TOT6                                      926
 1950 CUM6(IK)=CUM6(IK)*100 /TOT8                                      927
C***WRITE TITLES AND CALL P OT2 (CUMULATIVE BOILER & PLANT DATA)       928
      WRITE (3,HEADNG)                                                 929
      WRITE (3,TITLE)                                                  930
      WRITE (3,1960)                                                   931
 1960 FORMAT (57X,!LOAD FAC ORS!,//)                                   932
      DMAX=100.                                                        933
      IND=0                                                            934
      CALL PLOT2(CUM5,CUM6,IND,IISIDE,JJSIDE,TOTT5,TOTT6,TUTT7,TOTT8,DMA  935
     1X)                                                               936
      WRITE (3,1930) TOT5,T T6,TOT7,TOT8                               937
C***WRITE TITLES AND CALL P OT2 AGAIN (DENSITY DATA, BOILERS & PLANTS)  938
      WRITE (3,HEADNG)                                                 939
      WRITE (3,TITLE)                                                  940
      WRITE (3,2350)                                                   941
      DMAX=0.                                                          942
      DO 1970 IK=1,10                                                  943
      I=12-IK                                                          944
      CUM5(I)=CUM5(I)-CUM5( -1)                                        945
      CUM6(I)=CUM6(I)-CUM6( -1)                                        946
 1970 DMAX=AMAX1(DMAX,CUM5( ),CUM6(I))                                 947
      CALL PLOT2(CUM5,CUM6,IND,KKSIDE,LLSIDE,TOTT5,TOTT6,TUTT7,TOTT8,DMA  948
     1X)                                                               949
 1980 IF ((TOT6.EQ.0.).OR.( OT8.EQ.0.)) WRITE (3,1990)                 950
 1990 FORMAT (1H0,///,! GRAPHIC DISPLAY OF DATA IS NOT GIVEN FOR THIS TYP  951
     1E OF FUEL. SEE ASSOCI TED TABLES AND THE FOLLOWING 2 LINES FOR FUR  952
     1THER INFORMATION!,//)                                            953
      WRITE (3,1930) TOT5,T T6,TOT7,TOT8                               954
      IND=0                                                            955
C***WRITE TITLES AND PRINT  ABLE FOR BOILERS, CAPTY BY CAPTY AND L.F.  956
      WRITE (3,HEADNG)                                                 957
      WRITE (3,2000)                                                   958
 2000 FORMAT (1H ,40X,!BOILER CAPACITY BY BOILER LOAD FACTOR AND CAPACIT  959
     1Y!)                                                              960
      WRITE (3,TITLE)                                                  961
      WRITE (3,1570)                                                   962
      WRITE (3,2260)                                                   963
      WRITE (3,2270)                                                   964
      WRITE (3,1420)                                                   965
      WRITE (3,1430)                                                   966
      WRITE (3,1440)                                                   967
      DO 2010 LK=2,30                                                  968
 2010 LCAP(LK)=LCAP(LK)-1                                              969
      WRITE (3,2020) (IBENT (1,II),II=1,9)                             970
 2620 FORMAT (1H0,! EQUAL     0!,8X,9(1X,F10.0))                       971
      NUM=1                                                            972
      DO 2040 I=2,30                                                   973
      WRITE (3,2090) LCAP(I-1),LCAP(I)                                 974
      WRITE (3,2030) (IBENT (I,II),II=1,9)                             975
 2030 FORMAT (1H+,16X,9(1X, 10.0))                                     976
      LCAP(I)=LCAP(I)-1                                                977
      IF (I/5.LT.NUM) GO TO 2040                                       978
      NUM=NUM+1                                                        979
      WRITE (3,1570)                                                   980
 2040 CONTINUE                                                         981
      WRITE (3,1570)                                                   982
      WRITE (3,2050) (ICULT (IK),IK=1,9)                               983
 2050 FORMAT (1H0,!COLUMN T TALS!,3X,9(1X,F10.0))                      984
```

```
      WRITE (3,2060) (ICUMC (IK),IK=1,9)                                    985
 2060 FORMAT (1H ,'CUMUL, T TALS',3X,9(1X,F10,0))                           986
C***PRINT SECOND HALF OF TA LE-BOILER CAP'Y BY CAP'Y & LOAD FACTOR RANGE    987
      WRITE (3,HEADNG)                                                      988
      WRITE (3,2000)                                                        989
      WRITE (3,TITLE)                                                       990
      WRITE (3,1570)                                                        991
      WRITE (3,2260)                                                        992
      WRITE (3,2270)                                                        993
      WRITE (3,1420)                                                        994
      WRITE (3,1610)                                                        995
      WRITE (3,1620)                                                        996
      WRITE (3,2070) (IBENT (1,II),II=10,11),IBENTY(1,14),(IBENTY(1,II),    997
     1II=12,13),(IBENTY(1,I ),II=15,17)                                     998
 2070 FORMAT (1H0,' EQUAL     0',11X,8(F10,0,3X))                          999
      NUM=1                                                                 1000
      DO 2080 I=2,30                                                        1001
 2080 LCAP(I)=LCAP(I)+1                                                     1002
      DO 2110 J=2,30                                                        1003
      WRITE (3,2090) LCAP(J-1),LCAP(J)                                      1004
 2090 FORMAT (1H ,I5,'-',I6                                                 1005
      LCAP(J)=LCAP(J)+1                                                     1006
      WRITE (3,2100) (IBENT (J,II),II=10,11),IBENTY(J,14),(IBENTY(J,II),    1007
     1II=12,13),(IBENTY(J,I ),II=15,17)                                     1008
 2100 FORMAT (1H+,23X,8(F10 0,3X))                                          1009
      IF (J/5,LT,NUM) GO TO 2110                                            1010
      NUM=NUM+1                                                             1011
      WRITE (3,1570)                                                        1012
 2110 CONTINUE                                                              1013
      WRITE (3,1570)                                                        1014
      WRITE (3,2120) (ICOLT (IK),IK=10,11),ICOLTT(14),(ICOLTT(IK),IK=12,    1015
     113),(ICOLTT(IK),IK=15 17)                                             1016
 2120 FORMAT (1H ,'COLUMN T TALS',10X,8(F10,0,3X))                          1017
      WRITE (3,2130) (ICUMC (IK),IK=10,11),ICUMCL(14),(ICUMCL(IK),IK=12,    1018
     113),(ICUMCL(IK),IK=15 17)                                             1019
 2130 FORMAT (1H ,'CUMUL, T TALS',10X,8(F10,0,3X))                          1020
      DO 2140 KL=15,17                                                      1021
      ICOLTT(KL)=0                                                          1022
      ICUMCL(KL)=0                                                          1023
      ACUMCL(KL)=0,0                                                        1024
 2140 CONTINUE                                                              1025
      DO 2160 IK=1,14                                                       1026
      ICOLTT(IK)=0                                                          1027
      ICUMCL(IK)=0                                                          1028
      ACUMCL(IK)=0,0                                                        1029
      DO 2160 IJ=1,34                                                       1030
      ICOLTT(IK)=ICOLTT(IK) IPENTY(IJ,IK)                                   1031
      IF (IK,GT,11) GO TO 2150                                              1032
      ICOLTT(16)=ICOLTT(16) IPENTY(IJ,IK)                                   1033
      GO TO 2160                                                            1034
 2150 ICOLTT(15)=ICOLTT(15) IPENTY(IJ,IK)                                   1035
      ICOLTT(17)=ICOLTT(17) IPENTY(IJ,IK)                                   1036
 2160 CONTINUE                                                              1037
      ICUMCL(1)=0,                                                          1038
      ACUMCL(1)=0,0                                                         1039
      DO 2170 IK=2,13                                                       1040
      ICUMCL(IK)=ICOLTT(IK) ICUMCL(IK-1)                                    1041
      ACUMCL(IK)=ACOLTT(IK) ACUMCL(IK-1)                                    1042
 2170 CONTINUE                                                              1043
      ICUMCL(14)=ICOLTT(14) ICOLTT(1)                                       1044
      ACUMCL(14)=ACOLTT(14) ACOLTT(1)                                       1045
      ICUMCL(15)=ICOLTT(15)                                                 1046
      ACUMCL(15)=ACOLTT(15)                                                 1047
      ICUMCL(16)=ICOLTT(16)                                                 1048
      ACUMCL(16)=ACOLTT(16)                                                 1049
      ICUMCL(17)=ICOLTT(17)                                                 1050
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```
      ACUMCL(17)=ACOLTT(17)                                                  1051
      TOT4=ICUMCL(16)=ABVPL                                                  1052
      TOT3=ICUMCL(17)                                                        1053
      IF (COLTT(1),NE,0) GO TO 2180                                          1054
      ACOLTT(1)=COLTT(1)                                                     1055
      GO TO 2190                                                             1056
 2180 ACOLTT(1)=ACOLTT(1)/C LTT(1)                                           1057
      ACUMCL(1)=0,0                                                          1058
 2190 DO 2210 IK=2,17                                                        1059
      IF (COLTT(IK),NE,0) G  TO 2200                                         1060
      ACUMCL(IK)=ACOLTT(IK) ACUMCL(IK=1)                                     1061
      GO TO 2210                                                             1062
 2200 ACOLTT(IK)=ACOLTT(IK) COLTT(IK)                                        1063
      IF (CUMCL(IK),EQ,0) G  TO 2210                                         1064
      ACUMCL(IK)=ACUMCL(IK) CUMCL(IK)                                        1065
 2210 CONTINUE                                                               1066
C***WRITE TITLES AND PRINT  ABLE FOR PLANTS, CAPTY BY CAPTY AND L,F,         1067
      WRITE (3,HEADNG)                                                       1068
      WRITE (3,2220)                                                         1069
 2220 FORMAT (1H ,41X,'PLAN  CAPACITY BY PLANT LOAD FACTOR AND CAPACITY'     1070
     1)                                                                      1071
      WRITE (3,TITLE)                                                        1072
      WRITE (3,1570)                                                         1073
      WRITE (3,2260)                                                         1074
      WRITE (3,2270)                                                         1075
      WRITE (3,2230)                                                         1076
 2230 FORMAT (1H0,53X,'PLAN  LOAD FACTORS')                                  1077
      WRITE (3,1430)                                                         1078
      WRITE (3,1440)                                                         1079
      WRITE (3,2020) (IPENT (1,II),II=1,9)                                   1080
      DO 2240 J=2,34                                                         1081
 2240 LP(J)=LP(J)=1                                                          1082
      NUM=1                                                                  1083
      DO 2250 I=2,34                                                         1084
      WRITE (3,2090) LP(I=1 ,LP(I)                                           1085
      WRITE (3,2130) (IPENT (I,II),II=1,9)                                   1086
      LP(I)=LP(I)+1                                                          1087
      IF (I/5,LT,NUM) GO TO 2250                                             1088
      NUM=NUM+1                                                              1089
      WRITE (3,1570)                                                         1090
 2250 CONTINUE                                                               1091
      WRITE (3,2050) (ICOLT (IK),IK=1,9)                                     1092
      WRITE (3,2060) (ICUMC (IK),IK=1,9)                                     1093
C***WRITE TITLES AND PRINT  ECOND HALF OF PLANT CAPTY BY CAPTY & L,F,        1094
      WRITE (3,HEADNG)                                                       1095
      WRITE (3,2220)                                                         1096
      WRITE (3,TITLE)                                                        1097
      WRITE (3,1570)                                                         1098
      WRITE (3,2260)                                                         1099
 2260 FORMAT (1H ,49X,'TABL HENTRIES ARE TOTAL CAPACITY')                    1100
      WRITE (3,2270)                                                         1101
 2270 FORMAT (1H ,46X,'WITH N CAPACITY AND LOAD FACTOR RANGES')              1102
      WRITE (3,2230)                                                         1103
      WRITE (3,1610)                                                         1104
      WRITE (3,1620)                                                         1105
      WRITE (3,2070) (IPENT (1,II),II=10,11),IPENTY(1,14),(IPENTY(1,II),     1106
     1II=12,13),(IPENTY(1,I ),II=15,17)                                      1107
      NUM=1                                                                  1108
      DO 2280 I=2,34                                                         1109
 2280 LP(I)=LP(I)=1                                                          1110
      DO 2290 J=2,34                                                         1111
      WRITE (3,2090) LP(J=1 ,LP(J)                                           1112
      LP(J)=LP(J)+1                                                          1113
      WRITE (3,2100) (IPENT (J,II),II=10,11),IPENTY(J,14),(IPENTY(J,II),     1114
     1II=12,13),(IPENTY(J,I ),II=15,17)                                      1115
      IF (J/5,LT,NUM) GO TO 2290                                             1116
```

```
      NUM=NUM+1                                                          1117
      WRITE (3,1570)                                                     1118
 2290 CONTINUE                                                           1119
      WRITE (3,1570)                                                     1120
      WRITE (3,2120) (ICOLT (IK),IK=10,11),ICOLTT(10),(ICOLTT(IK),IK=12, 1121
     113),(ICOLTT(IK),IK=15 17)                                          1122
      WRITE (3,2130) (ICUMC (IK),IK=10,11),ICUMCL(10),(ICUMCL(IK),IK=12, 1123
     113),(ICUMCL(IK),IK=15 17)                                          1124
C***WRITE TITLES AND CALL P OT1(BOILER AND PLANT CUMULATIVE CAPITY DATA) 1125
      WRITE (3,HEADNG)                                                   1126
      WRITE (3,TITLE)                                                    1127
      WRITE (3,2300)                                                     1128
 2300 FORMAT (48X,'BUILER A D PLANT SIZE DISTRIBUTIONS',///,'      X--INDI 1129
     1VIDUAL BUILERS',/,'      *--PLANTS')                              1130
      IF ((TOT2.EQ.0.).OR.( OT4.EQ.0.)) GO TO 2310                       1131
      DO 2310 IK=1,30                                                    1132
      CUM3(IK)=CUM3(IK)*100 /TOT4                                        1133
 2310 CUM4(IK)=CUM4(IK)*100 /TOT2                                        1134
      CALL PLOT!(CUM4,CUM3, ND1,TOT1,TOT2,TOT3,TOT4)                     1135
      WRITE (IPRINT,2340) T T1,TOT2,TOT3,TOT4                            1136
      IND=0                                                              1137
C***WRITE TITLES AND CALL P OT2 (CUMUL, DATA, CAPITY BY CAPITY & L,F,)   1138
      WRITE (3,HEADNG)                                                   1139
      WRITE (3,TITLE)                                                    1140
      WRITE (3,1960)                                                     1141
      DMAX=100.                                                          1142
      DO 2320 IK=1,11                                                    1143
 2320 CUM1(IK)=ICUMCL(IK)+C M1(IK)                                       1144
      DO 2330 IK=1,11                                                    1145
 2330 CUM1(IK)=CUM1(IK)*100 /TOT4                                        1146
      CALL PLOT2(CUM1,CUM2, ND,ISIDE,JSIDE,TOT1,TOT2,TOT3,TOT4,DMAX)     1147
      WRITE (IPRINT,2340) T T1,TOT2,TOT3,TOT4                            1148
 2340 FORMAT (' BOILER CAT CITIES (ALL DATA) =',F10.0,' BOILER CAPACIT   1149
     1IES (RELIABLE DATA) = ,F10.0,//,' PLANT CAPACITIES (ALL DATA) =',F 1150
     111.0,' PLANT CAPACIT ES (RELIABLE DATA) =',F11.0)                  1151
C***WRITE TITLES AND CALL P OT2(DENSITY DATA, CAPITY BY CAPITY & LOAD FAC, 1152
      WRITE (3,HEADNG)                                                   1153
      WRITE (3,TITLE)                                                    1154
      WRITE (3,2350)                                                     1155
 2350 FORMAT (55X,'LOAD FAC OR ,ENSITIES',/)                             1156
      DMAX=0.                                                            1157
      DO 2360 IK=1,10                                                    1158
      I=12-IK                                                            1159
      CUM1(I)=CUM1(I)-CUM1( -1)                                          1160
      CUM2(I)=CUM2(I)-CUM2( -1)                                          1161
 2360 DMAX=AMAX1(DMAX,CUM1( ),CUM2(I))                                   1162
      CALL PLOT2(CUM1,CUM2, ND,KSIDE,LSIDE,TOT1,TOT2,TOT3,TOT4,DMAX)     1163
 2370 IF ((TOT2.EQ.0.).OR.( OT4.EQ.0.)) WRITE (3,1990)                   1164
      WRITE (IPRINT,2340) T T1,TOT2,TOT3,TOT4                            1165
C *** COMPUTE ENTRIES FOR S ACK DATA TABLE                               1166
      DO 2380 IN=2,34                                                    1167
      IF (IN.GT.30) GO TO 2380                                           1168
      COLTT(IN)=0                                                        1169
      CUMCL(IN)=0                                                        1170
 2380 LP(IN)=LP(IN)-1                                                    1171
      COLTT(1)=0                                                         1172
      CUMCL(1)=0                                                         1173
      ISENTY(1,30)=0                                                     1174
      DO 2410 IN=1,34                                                    1175
      ISENTY(IN,29)=ISENTY( N,1)                                         1176
      COLTT(1)=COLTT(1)+ISE TY(IN,1)                                     1177
      IF (IN.EQ.1) GO TO 23 0                                            1178
      ISENTY(IN,30)=ISENTY( N=1,30)+ISENTY(IN,1)                         1179
      COLTT(30)=COLTT(30)+I ENTY(IN,1)                                   1180
      CUMCL(30)=CUMCL(30)+I ENTY(IN,1)                                   1181
 2390 COLTT(29)=COLTT(29)+I ENTY(IN,1)                                   1182
```

```
      CUMCL(29)=CUMCL(29)+I ENTY(IN,1)                                  1183
      DO 2410 IC=2,28                                                   1184
      ISENTY(IN,29)=ISENTY( N,29)+ISENTY(IN,IC)                         1185
      COLTT(IC)=COLTT(IC)+1 ENTY(IN,IC)                                 1186
      CUMCL(IC)=COLTT(IC)+C MCL(IC-1)                                   1187
      IF (IN.EQ.1) GO TO 24 0                                           1188
      ISENTY(IN,30)=ISENTY( N,30)+ISENTY(IN,IC)                         1189
      CUMCL(30)=CUMCL(30)+I ENTY(IN,IC)                                 1190
      COLTT(30)=COLTT(30)+I ENTY(IN,IC)                                 1191
 2400 COLTT(29)=COLTT(29)+I ENTY(IN,IC)                                 1192
      CUMCL(29)=CUMCL(29)+I ENTY(IN,IC)                                 1193
 2410 CONTINUE                                                          1194
C *** PRINT FIRST HALF OF S ACK DATA TABLE                              1195
      WRITE (3,HEADNG)                                                  1196
      WRITE (3,2420)                                                    1197
      WRITE (3,TITLE)                                                   1198
 2420 FORMAT (1H ,43X,'STAC  HEIGHT BY TOTAL DESIGN CAPACITY SERVED')   1199
      WRITE (3,2430)                                                    1200
 2430 FORMAT (1H0,48X,'TABL  ENTRIES ARE NUMBER OF STACKS')             1201
      WRITE (3,2440)                                                    1202
 2440 FORMAT (1H0,55X,'STAC  HEIGHTS IN FEET')                          1203
      WRITE (3,2450)                                                    1204
 2450 FORMAT (1H ,3X,'CAPAC TY',11X,'EQUAL',5X,'1-    21-    41-    61-  1205
     1   81-   101-   121-   141-   161-   181-   201-   251-   301-   3  1206
     151-')                                                             1207
      WRITE (3,2460)                                                    1208
 2460 FORMAT (1H ,2X,'MBTU' S/HR',11X,'ZERO      20      40      60      80  1209
     1   100     120     140     160     180     200     250     300     350  1210
     1400')                                                             1211
      WRITE (3,2470) (ISENT (1,KK),KK=1,15)                             1212
 2470 FORMAT (1H0,' EQUAL      0',9X,I5,2X,14(I5,2X))                   1213
      NUM=1                                                             1214
      DO 2490 LI=2,34                                                   1215
      WRITE (3,2480) LP(LI- ),LP(LI),(ISENTY(LI,KK),KK=1,15)            1216
 2480 FORMAT (1H ,I5,'-',I6,9X,15(I5,2X))                               1217
      LP(LI)=LP(LI)+1                                                   1218
      IF (LI/5.LT.NUM) GO TO 82490                                      1219
      WRITE (3,1570)                                                    1220
      NUM=NUM+1                                                         1221
 2490 CONTINUE                                                          1222
      WRITE (3,2500) (COLTT JJ),JJ=1,15)                                1223
 2500 FORMAT (1H0,'COLUMN T TALS',8X,15(I5,2X))                         1224
      WRITE (3,2510) (CUMCL JJ),JJ=1,15)                                1225
 2510 FORMAT (1H ,'CUMUL, T TALS',8X,15(I5,2X))                         1226
C *** PRINT SECOND HALF OF  TACK DATA TABLE                             1227
      DO 2520 LI=2,34                                                   1228
 2520 LP(LI)=LP(LI)-1                                                   1229
      WRITE (3,HEADNG)                                                  1230
      WRITE (3,2420)                                                    1231
      WRITE (3,TITLE)                                                   1232
      WRITE (3,2430)                                                    1233
      WRITE (3,2440)                                                    1234
      WRITE (3,2530)                                                    1235
 2530 FORMAT (1H ,3X,'CAPAC TY',12X,'451-   451-   501-   551-   601-   1236
     1651-   701-   751-    01-   851-   901-   951- ABOVE   ROW    CUM  1237
     1,')                                                               1238
      WRITE (3,2540)                                                    1239
 2540 FORMAT (1H ,2X,'MBTU' S/HR',11X,' 450     500     550     600     650  1240
     1   700     750     800     850     900     950    1000    1000   TOTAL  T  1241
     1OTAL')                                                            1242
      WRITE (3,2550) (ISENT (1,KK),KK=16,30)                            1243
 2550 FORMAT (1H0,' EQUAL      0',9X,15(I5,2X))                         1244
      NUM=1                                                             1245
      DO 2560 LI=2,34                                                   1246
      WRITE (3,2480) LP(LI- ),LP(LI),(ISENTY(LI,KK),KK=16,30)           1247
      LP(LI)=LP(LI)+1                                                   1248
```

```
      IF (LI/5,LT,NUM) GO T  2560                                          1249
      NUM=NUM+1                                                            1250
      WRITE (3,1570)                                                       1251
 2560 CONTINUE                                                             1252
      WRITE (3,2500) (COLTT JJ),JJ=16,30)                                  1253
      WRITE (3,2510) (CUMCL JJ),JJ=16,30)                                  1254
      NLGPLT=0                                                             1255
      NLGBLR=0                                                             1256
      ABVPLT=0,                                                            1257
      ABVBLR=0,                                                            1258
      WRITE (3,HEADNG)                                                     1259
      WRITE (3,2570)                                                       1260
 2570 FORMAT (1H ,32X,'AVER GE NUMBER OF BOILERS PER PLANT BY CAPACITY &   1261
     1 LOAD FACTOR RANGE')                                                 1262
      WRITE (3,TITLE)                                                      1263
      WRITE (3,1570)                                                       1264
      WRITE (3,2580)                                                       1265
 2580 FORMAT (1H ,17X,'ENTR ES ARE NUMBER OF BOILERS DIVIDED BY NUMBER O   1266
     1F PLANTS FOR EACH CAP CITY & LOAD FACTOR PAIR')                      1267
      WRITE (3,2230)                                                       1268
      WRITE (3,1430)                                                       1269
      WRITE (3,1440)                                                       1270
      DO 2590 LI=2,34                                                      1271
 2590 LP(LI)=LP(LI)-1                                                      1272
      WRITE (3,2600) (AVBPL (1,II),II=1,9)                                 1273
 2600 FORMAT (1H0,12H EQUAL      0,4X,9(1X,F10,2))                        1274
      NUM=1                                                                1275
      DO 2620 I=2,34                                                       1276
      WRITE (3,2090) LP(I-1 ,LP(I)                                         1277
      WRITE (3,2610) (AVBPL (I,II),II=1,9)                                 1278
 2610 FORMAT (1H+,16X,9(1X, 10,2))                                         1279
      LP(I)=LP(I)+1                                                        1280
      IF (I/5,LT,NUM) GO TO 2620                                           1281
      NUM=NUM+1                                                            1282
      WRITE (3,1570)                                                       1283
 2620 CONTINUE                                                             1284
      WRITE (3,1570)                                                       1285
      WRITE (3,2630) (ACOLT (IK),IK=1,9)                                   1286
 2630 FORMAT (1H0,'COLUMN T TALS',3X,9(1X,F10,2))                          1287
      WRITE (3,2640) (ACUMC (IK),IK=1,9)                                   1288
 2640 FORMAT (1H ,'CUMUL. T TALS',3X,9(1X,F10,2))                          1289
C                                                                          1290
C    WRITE TITLES FOR SECOND HALF OF AVE. NO. OF BOILERS PER PLANT         1291
C                                                                          1292
      WRITE (3,HEADNG)                                                     1293
      WRITE (3,2570)                                                       1294
      WRITE (3,TITLE)                                                      1295
      WRITE (3,1570)                                                       1296
      WRITE (3,2580)                                                       1297
      WRITE (3,2230)                                                       1298
      WRITE (3,1610)                                                       1299
      WRITE (3,1620)                                                       1300
      DO 2650 IK=2,34                                                      1301
 2650 LP(IK)=LP(IK)-1                                                      1302
      WRITE (3,2660) (AVBPL (1,II),II=10,11),AVBPLT(1,14),(AVBPLT(1,II),   1303
     1II=12,13),(AVBPLT(1,I ),II=15,17)                                    1304
 2660 FORMAT (1H0,12H EQUAL      0,11X,8(F10,2,3X))                       1305
      NUM=1                                                                1306
      DO 2680 I=2,34                                                       1307
      WRITE (3,2090) LP(I-1 ,LP(I)                                         1308
      WRITE (3,2670) (AVBPL (I,II),II=10,11),AVBPLT(I,14),(AVBPLT(I,II),   1309
     1II=12,13),(AVBPLT(I,I ),II=15,17)                                    1310
 2670 FORMAT (1H+,23X,8(F10 2,3X))                                         1311
      LP(I)=LP(I)+1                                                        1312
      IF (I/5,LT,NUM) GO TO 2680                                           1313
      NUM=NUM+1                                                            1314
```

```
      WRITE (3,1570)                                                    1315
 2680 CONTINUE                                                          1316
      WRITE (3,1570)                                                    1317
      WRITE (3,2690) (ACOLT (IK),IK=10,11),ACOLTT(14),(ACOLTT(IK),IK=12,1318
     113),(ACOLTT(IK),IK=15 17)                                         1319
 2690 FORMAT (1H0,'COLUMN T TALS',10X,8(F10.2,3X))                      1320
      WRITE (3,2700) (ACUMC (IK),IK=10,11),ACUMCL(14),(ACUMCL(IK),IK=12,1321
     113),(ACUMCL(IK),IK=15 17)                                         1322
 2700 FORMAT (1H ,'CUMUL. T TALS',10X,8(F10.2,3X))                      1323
 2710 CONTINUE                                                          1324
 2720 CONTINUE                                                          1325
      CALL EXIT                                                         1326
      END                                                               1327
```

```
      SUBROUTINE PLOT2(DATA CORAD,IND,ISIDE,JSIDE,TOT1,TOT2,TOT3,TOT4,DM      1
     1AX)                                                                     2
      DIMENSION IGR(21,36)                                                    3
      DIMENSION DATA(36),SC LE(11),CORAD(36),ISIDE(3,21),JSIDE(3,21)          4
      DIMENSION SCH(11)                                                       5
      DATA SCH/0.,.1,.2,.3, 4,.5,.6,.7,.8,.9,1./                              6
      DATA ISPACE/'    '/,I PASK/'   *'/,ISPACX/'   X'/                       7
      IF (IND)  20,10,20                                                      8
C                                                                             9
C   ON FIRST CALL, INITIALI E VALUES.                                        10
C                                                                            11
   10 IND=999                                                                12
      IPRINT=3                                                               13
      ISTAR=ISPASK                                                           14
      IBLANK=ISPACE                                                          15
      Ix=ISPACX                                                              16
      SCALE(1)=0.                                                            17
C                                                                            18
C   START BY BLANKING IGR.                                                   19
C                                                                            20
   20 DO 30 I=1,21                                                           21
      DO 30 J=1,36                                                           22
   30 IGR(I,J)=IBLANK                                                        23
C                                                                            24
C   DETERMINE VERTICAL SCAL  FACTORS.                                        25
C                                                                            26
      DMAX1=DMAX/20.                                                         27
      DO 40 I=2,11                                                           28
      SCALE(I)=DMAX/10.*FLO T(I-1)                                           29
   40 CONTINUE                                                               30
C                                                                            31
C   SET UP PRINT GRID IGR.                                                   32
C                                                                            33
      DO 60 I=1,11                                                           34
      X2=DATA(I)                                                             35
      IDX2=X2*20./DMAX+1.                                                    36
      IF (X2.LE.DMAX1)IDX2=                                                  37
      IGR(IDX2,I)=ISTAR                                                      38
   60 CONTINUE                                                               39
C                                                                            40
C   PRINT GRAPH.                                                             41
C                                                                            42
      WRITE (IPRINT,70)                                                      43
   70 FORMAT (45X,42HI---|- -|---|---|---|---|---|---|---|---|I)             44
      DO 100 I=1,10                                                          45
      J=12-I                                                                 46
      K=J+J-1                                                                47
      WRITE (IPRINT,80) (IS*DE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=2,11),SC     48
     1ALE(J),(ISIDE(L,K),L=  ,3)                                             49
   80 FORMAT (29X,2A4,A2,F5 1,2H -,10A4,2H- ,F5.1,2X,2A4,A2)                 50
      K=K-1                                                                  51
      WRITE (IPRINT,90) (IS*DE(L,K),L=1,3),(IGR(K,L),L=2,11),(ISIDE(L,K)     52
     1,L=1,3)                                                                53
   90 FORMAT (29X,2A4,A2,5X 2H I,10A4,2HI ,7X,2A4,A2)                        54
  100 CONTINUE                                                               55
      WRITE (IPRINT,80) (JS*DE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=2,11),SC     56
     1ALE(1),(ISIDE(L,1),L=  ,3)                                             57
      WRITE (IPRINT,70)                                                      58
      WRITE (IPRINT,110) (3 H(I),I=1,10),(SCH(I),I=2,11)                     59
  110 FORMAT (47X,10F4.1,//, 7X,10(1H-,F3.1),/,59X,'LOAD FACTOR',//)         60
```

```
      WRITE (IPRINT,70)                                                 61
      DO 120 I=1,21                                                     62
      DO 120 J=1,11                                                     63
  120 IGR(I,J)=IBLANK                                                   64
      DO 130 I=1,11                                                     65
      X1=CURAQ(I)                                                       66
      IDX=X1/DMAX*20.+1.                                                67
      IF (X1.LE.DMAX1)IDX=1                                             68
      IGR(IDX,I)=IX                                                     69
  130 CONTINUE                                                          70
      DO 140 I=1,10                                                     71
      J=12-I                                                            72
      K=J+J-1                                                           73
      WRITE (IPRINT,80) (JSIDE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=2,11),SC 74
     1ALE(J),(JSIDE(L,K),L= ,3)                                         75
      K=K-1                                                             76
      WRITE (IPRINT,90) (JSIDE(L,K),L=1,3),(IGR(K,L),L=2,11),(JSIDE(L,K) 77
     1,L=1,3)                                                           78
  140 CONTINUE                                                          79
      WRITE (IPRINT,80) (JSIDE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=2,11),SC 80
     1ALE(1),(JSIDE(L,1),L= ,3)                                         81
      WRITE (IPRINT,70)                                                 82
      WRITE (IPRINT,110) (S H(I),I=1,10),(SCH(I),I=2,11)                83
      RETURN                                                            84
      END                                                               85
```

```
      SUBROUTINE PLOT1(DATA CATA,IND,TOT1,TOT2,TOT3,TOT4)                    1
      DIMENSION IGR(41,30)                                                   2
      DIMENSION DATA(30),CA A(30),SCALE(11)                                  3
      DATA IBLANK/'    '/,I /'   X'/,ISTAR/'   *'/                           4
      IF (IND)  60,10,60                                                     5
C                                                                            6
C   ON FIRST CALL, INITIALI E VALUES,                                        7
C                                                                            8
   10 IND=999                                                                9
      DMAX=100.                                                             10
      SCALE(1)=0.                                                           11
C                                                                           12
C   START BY BLANKING IGR,                                                  13
C                                                                           14
C                                                                           15
C   PRINT GRAPH TOP                                                         16
C                                                                           17
      PRINT 20                                                              18
   20 FORMAT (55X,'CAPACITY RANGES, MBTU/HR'//)                             19
      PRINT 30                                                              20
   30 FORMAT (5X,124H        2,2     4,6     10,0     21,5     46,4      100  21
     1    215      464     10 0    2150     4640     10000    21500    46400  22
     1100000 )                                                              23
      PRINT 40                                                              24
   40 FORMAT (5X,124H   1,5  |  3,2  |  6,8  |  14,7 |  31,6 |  68,1 |       25
     1147  |  316  |  681    1470  | 3160  | 6810  | 14700 | 31600 | 681    26
     100 |    )                                                             27
      PRINT 50                                                              28
   50 FORMAT (5X,122HI---|- -|---|---|---|---|---|---|---|---|---|---|--    29
     1-|---|---|---|---|--- ---|---|---|---|---|---|---|---|---|---|---|    30
     1---|I)                                                                31
   60 DO 70 J=1,30                                                          32
      DO 70 I=1,41                                                          33
   70 IGR(I,J)=IBLANK                                                       34
C                                                                           35
C   DETERMINE VERTICAL SCAL  FACTORS,                                       36
C                                                                           37
      DO 80 I=2,11                                                          38
      SCALE(I)=DMAX/10,*FLO T(I-1)                                          39
   80 CONTINUE                                                              40
C                                                                           41
C   SET UP PRINT GRID IGR,                                                  42
      DMAXX=DMAX/40,                                                        43
C                                                                           44
      DO 140 I=1,30                                                         45
      X1=DATA(I)                                                            46
      X2=CATA(I)                                                            47
      IF (X2-DMAXX)  100,10 ,90                                             48
   90 IDX=X2/DMAX*40,+1,                                                    49
      IGR(IDX,I)=ISTAR                                                      50
      GO TO 110                                                             51
  100 IGR(1,I)=ISTAR                                                        52
  110 CONTINUE                                                              53
      IF (X2-DMAXX)  130,13 ,120                                            54
  120 IDX2=X1/DMAX*40,+1,                                                   55
      IGR(IDX2,I)=IX                                                        56
      GO TO 140                                                             57
  130 IGR(1,I)=IX                                                           58
  140 CONTINUE                                                              59
C                                                                           60
```

```
C   PRINT GRAPH.
C
      DO 180 I=1,10
      J=12-I
      K=(J-1)*4+1
      PRINT 150,SCALE(J),(I R(K,L),L=1,30),SCALE(J)
  150 FORMAT (F5.0,1H-,30A4 1H-,F5.0)
      DO 160 M=1,3
      K=K+1
  160 PRINT 170,(IGR(K,L),L 1,30)
  170 FORMAT (5X,'I',30A4,' ')
  180 CONTINUE
      PRINT 150,SCALE(1),(I R(1,L),L=1,30),SCALE(1)
      PRINT 50
      PRINT 40
      PRINT 30
      PRINT 20
      RETURN
      END
```

PROGRAM THAT PRODUCED JOINT DISTRIBUTIONS 7 THROUGH 10

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C     SUBPROGRAM FOR BOILER POPULATION DATA ANALYSIS                    MAIN  10
C     DATA EITHER HAS BEEN ORDERED OR IS ASSUMED TO BE IN ORDER         MAIN  15
      REAL LDFACT,MAXBTU                                                MAIN  20
      COMMON LCAP(30),MAXBTU(60),ACTBTU(60,3),LDFACT(3),BLDFAC(60),BENTYMAIN  25
     1(30,18),ICUMCL(18),ICOLTT(18),LP(35),PENTY(35,18),MKAP(35),IDAT(6,MAIN  30
     1600),DAT(15,5),KBOIL(18),COLTT(18),CUMCL(18),B(30),IP(35),LPLANT(1MAIN  35
     118),IBENTY(30,18),IPENTY(35,18)                                   MAIN  40
      DIMENSION BLF(15)                                                 MAIN  45
      DIMENSION ISIDE(3,21),JSIDE(3,21),KSIDE(3,21),LSIDE(3,21),CUM1(36)MAIN  50
     1,CUM2(36),CUM5(36),CUM6(36),CUM7(30),CUM8(30)                     MAIN  55
      DIMENSION CUM3(30),CUM4(30),IISIDE(3,21),JJSIDE(3,21),KKSIDE(3,21)MAIN  60
     1,LISIDE(3,21)                                                     MAIN  65
      DIMENSION IB(12,13),IAR(12)                                       MAIN  70
      DIMENSION LABEL(11,13),TITLE(11),TOTBTU(60),ITIT(18),ITIT1(18,2)  MAIN  75
      DIMENSION ALFUEL(11),ALCOAL(11),RESOIL(11),DISOIL(11),ALLOIL(11),NMAIN  80
     1ATGAS(11),PROGAS(11),LPGGAS(11),ALLGAS(11),COKE(11),OTHER(11),BAGGMAIN  85
     1AS(11),MULTFL(11)                                                 MAIN  90
      REAL*4 LABEL,TITLE,LPGGAS,NATGAS,MULTFL                           MAIN  95
      EQUIVALENCE (LABEL(1),ALFUEL(1)),(LABEL(12),ALCOAL(1)),(LABEL(23),MAIN 100
     1RESOIL(1)),(LABEL(34),DISOIL(1)),(LABEL(45),ALLOIL(1)),(LABEL(56),MAIN 105
     1NATGAS(1)),(LABEL(67),PROGAS(1)),(LABEL(78),COKE(1)),(LABEL(89),OTMAIN 110
     1HER(1)),(LABEL(100),LPGGAS(1)),(LABEL(111),ALLGAS(1)),(LABEL(122),MAIN 115
     1BAGGAS(1)),(LABEL(133),MULTFL(1))                                 MAIN 120
      DATA ITIT1/'(1H1',',36X',',''BO','ILER',' POP','ULAT','ION ','DATAMAIN 125
     1',' - C','OMME','RCIA','L-IN','STIT','UTIO','NAL ','BOIL','ERS''',MAIN 130
     1')   ',',(1H1',',46X',','''BO','ILER',' POP','ULAT','ION ','DATA',' MAIN 135
     1- I','NDUS','TRIA','L BO','ILER','S'') ',4*'    '/                MAIN 140
      DATA BLF/0.,.2,.3,.4,.6,.8,1.0,1.2,1.5,2.0,2.5,3.0,3.5,4.0,5.0/   MAIN 145
      DATA IB/15*1,12*0,1,12*0,1,10*0,1,1,12*0,1,12*0,1,12*0,1,12*0,1,0,MAIN 150
     10,1,9*0,1,7*0,1,1,0,0,1,12*0,1,0,12*1/                           MAIN 155
      DATA ALFUEL/'(1H ',',52X',',''AL','L BO','ILER','S AN','D AL','L FMAIN 160
     1U','ELS ',' ',' ',' ')'/                                         MAIN 165
      DATA ALCOAL/'(53X',',''AL','L CO','AL-F','IRED',' BOI','LERS',' ' MAIN 170
     1 ',' ',' ',' ',' ')'/                                            MAIN 175
      DATA RESOIL/'(52X',',''RE','SIDU','AL O','IL-F','IRED',' BOI','LERMAIN 180
     1S',' ',' ',' ',' ')'/                                            MAIN 185
      DATA DISOIL/'(51X',',''DI','STIL','LATE',' OIL','-FIR','ED B','OILMAIN 190
     1E','RS ',' ',' ',' ')'/                                          MAIN 195
      DATA ALLOIL/'(54X',',''AL','L OI','L-FI','RED ','BOIL','ERS ',' ' MAIN 200
     1 ',' ',' ',' ',' ')'/                                            MAIN 205
      DATA NATGAS/'(52X',',''NA','TURA','L GA','S-FI','RED ','BOIL','ERSMAIN 210
     1 ',' ',' ',' ',' ')'/                                            MAIN 215
      DATA PROGAS/'(52X',',''PR','OCES','S GA','S-FI','RED ','BOIL','ERSMAIN 220
     1 ',' ',' ',' ',' ')'/                                            MAIN 225
      DATA LPGGAS/'(48X',',''LI','QUID',' PET','ROLE','UM G','AS-F','IREMAIN 230
     1D',' BOI','LERS',' ',' ')'/                                      MAIN 235
      DATA ALLGAS/'(54X',',''AL','L GA','S-FI','RED ','BOIL','ERS ',' ' MAIN 240
     1 ',' ',' ',' ',' ')'/                                            MAIN 245
      DATA COKE/'(53X',',''AL','L CO','KE-F','IRED',' BOI','LERS',' '  'MAIN 250
     1,' ',' ',' ',' ')'/                                              MAIN 255
      DATA BAGGAS/'(52X',',''AL','L BA','GGAS','E-FI','RED ','BOIL','ERSMAIN 260
     1 ',' ',' ',' ',' ')'/                                            MAIN 265
      DATA OTHER/'(49X',',''AL','L WO','OD A','ND O','THER','-FIR','ED BMAIN 270
     1','OILE','RS ',' ',' ')'/                                        MAIN 275
      DATA MULTFL/'(49X',',''MU','LTIP','LE F','UEL-','FIRE','D BO','ILEMAIN 280
     1R','S ON','LY ',' ',' ')'/                                       MAIN 285
      DATA CUM3/30*0./,CUM4/30*0./,CUM7/30*0./,CUM8/30*0./,CUM5/36*0./,CMAIN 290
     1UM6/36*0./                                                       MAIN 295
      DATA ISIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','CAMAIN 300
     1PA','CITI','ES  ','BOIL','ER  ','    ',24*'    '/               MAIN 305
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      DATA JSIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','CAMAIN 310
     1PA','CITI','ES  ','PLAN','T   ','    ',24*'    '/                  MAIN 315
      DATA KSIDE/27*'    ','PERC','ENT ','    ','CAPA','CITI','ES, ','BOMAIN 320
     1IL','ER  ',28*'    '/                                              MAIN 325
      DATA LSIDE/27*'    ','PERC','ENT ','    ','CAPA','CITI','ES, ','PLMAIN 330
     1AN','T   ',28*'    '/                                              MAIN 335
      DATA IISIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','BMAIN 340
     1OIL','ERS ','    ','NUMB','ER O','F   ',24*'    '/                MAIN 345
      DATA JJSIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','PMAIN 350
     1LAN','TS  ','    ','NUMB','ER O','F   ',24*'    '/                MAIN 355
      DATA KKSIDE/27*'    ','PERC','ENT ','    ','BOIL','ERS ','    ','NMAIN 360
     1UMB','ER O','F   ',27*'    '/                                      MAIN 365
      DATA LLSIDE/27*'    ','PERC','ENT ','    ','PLAN','TS  ','    ','NMAIN 370
     1UMB','ER O','F   ',27*'    '/                                      MAIN 375
      CALL REREAD                                                        MAIN 380
      IND=0                                                              MAIN 385
      IPRINT=3                                                           MAIN 390
      IX1=1                                                              MAIN 395
      IX2=1                                                              MAIN 400
      ITAPE=8                                                            MAIN 405
      READ (1,10) ILAST,ITITL                                            MAIN 410
   10 FORMAT (2I5)                                                       MAIN 415
      DO 20 LL=1,18                                                      MAIN 420
   20 ITIT(LL)=ITIT1(LL,ITITL)                                           MAIN 425
   30 READ (1,10, END=1560) IRTYP,IRUN                                   MAIN 430
      DO 40 LL=1,11                                                      MAIN 435
   40 TITLE(LL)=LABEL(LL,IRTYP)                                          MAIN 440
      PLTCAP=0.                                                          MAIN 445
      PLDFAC=0.                                                          MAIN 450
      DO 50 KP=1,30                                                      MAIN 455
      B(KP)=0.0                                                          MAIN 460
      CUM3(KP)=0.                                                        MAIN 465
      CUM4(KP)=0.                                                        MAIN 470
      CUM7(KP)=0.                                                        MAIN 475
      CUM8(KP)=0.                                                        MAIN 480
      DO 50 LP=1,18                                                      MAIN 485
      LPLANT(LP)=0                                                       MAIN 490
      KBOIL(LP)=0                                                        MAIN 495
      BENTY(KP,LP)=0                                                     MAIN 500
      IBENTY(KP,LP)=0                                                    MAIN 505
   50 CONTINUE                                                           MAIN 510
      CUM1(1)=0.                                                         MAIN 515
      CUM2(1)=0.                                                         MAIN 520
      CUM5(1)=0.                                                         MAIN 525
      CUM6(1)=0.                                                         MAIN 530
      DO 60 KM=1,35                                                      MAIN 535
      MKAP(KM)=0                                                         MAIN 540
      CUM1(KM+1)=0.                                                      MAIN 545
      CUM2(KM+1)=0.                                                      MAIN 550
      CUM5(KM+1)=0.                                                      MAIN 555
      CUM6(KM+1)=0.                                                      MAIN 560
      DO 60 LP=1,18                                                      MAIN 565
      PENTY(KM,LP)=0                                                     MAIN 570
      IPENTY(KM,LP)=0                                                    MAIN 575
   60 CONTINUE                                                           MAIN 580
      DO 70 K=1,60                                                       MAIN 585
      MAXBTU(K)=0.0                                                      MAIN 590
      TOTBTU(K)=0.0                                                      MAIN 595
      DO 70 J=1,3                                                        MAIN 600
      ACTBTU(K,J)=0.0                                                    MAIN 605
      LDFACT(J)=0.0                                                      MAIN 610
   70 CONTINUE                                                           MAIN 615
      JRTYP=IRTYP                                                        MAIN 620
      IF (JRTYP.GE.13)JRTYP=1                                            MAIN 625
      DO 80 I=1,12                                                       MAIN 630
   80 IAR(I)=IR(JRTYP,I)                                                 MAIN 635
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      JFUEL=0                                                          MAIN 640
      M=0                                                              MAIN 645
      N=0                                                              MAIN 650
      J=0                                                              MAIN 655
      K=0                                                              MAIN 660
      L=0                                                              MAIN 665
      IBOIL=0                                                          MAIN 670
      KK=0                                                             MAIN 675
      KM=0                                                             MAIN 680
      JJ=0                                                             MAIN 685
      LCAP(1)=0                                                        MAIN 690
      DO 90 KP=2,11                                                    MAIN 695
      LCAP(KP)=LCAP(KP-1)+10                                           MAIN 700
   90 CONTINUE                                                         MAIN 705
      DO 100 KP=12,20                                                  MAIN 710
      LCAP(KP)=LCAP(KP-1)+100                                          MAIN 715
  100 CONTINUE                                                         MAIN 720
      DO 110 KP=21,29                                                  MAIN 725
      LCAP(KP)=LCAP(KP-1)+1000                                         MAIN 730
  110 CONTINUE                                                         MAIN 735
      LCAP(30)=100000                                                  MAIN 740
      DO 120 KM=1,29                                                   MAIN 745
      LP(KM)=LCAP(KM)                                                  MAIN 750
  120 CONTINUE                                                         MAIN 755
      DO 130 KM=30,33                                                  MAIN 760
      LP(KM)=LP(KM-1)+10000                                            MAIN 765
  130 CONTINUE                                                         MAIN 770
      LP(34)=100000                                                    MAIN 775
      IF (IRUN.NE.1) GO TO 140                                         MAIN 780
      WRITE (3,ITIT)                                                   MAIN 785
      WRITE (3,TITLE)                                                  MAIN 790
      WRITE (3,990)                                                    MAIN 795
      WRITE (3,990)                                                    MAIN 800
  140 N=N+1                                                            MAIN 805
      READ (ITAPE,150, END=320, ERR=400) (IDAT(I,N),I=1,6),ICARD       MAIN 810
  150 FORMAT (I9,I4,4I2,58X,I1)                                        MAIN 815
      IF (ICARD.NE.1) GO TO 180                                        MAIN 820
C *** READ PLANT NAME, OWNER, PERSON TO CONTACT, AND ICARD              MAIN 825
      READ (99,160) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),ICARD          MAIN 830
  160 FORMAT (I9,I4,4I2,10A4,A2,I1)                                    MAIN 835
      M=M+1                                                            MAIN 840
C *** WRITE PLANT NAME,PERSON TO CONTACT, OWNER, AND ICARD             MAIN 845
      IF (IRUN.EQ.1) WRITE (3,170) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),IMAIN 850
     1CARD                                                             MAIN 855
  170 FORMAT (1H0,I9,I4,4I2,2X,10A4,2X,4A4,2X,A2,I1)                   MAIN 860
      JJ=1                                                             MAIN 865
      GO TO 340                                                        MAIN 870
  180 IF (ICARD.NE.2) GO TO 200                                        MAIN 875
      M=M+1                                                            MAIN 880
      WRITE (3,190) (IDAT(I,N),I=1,4)                                  MAIN 885
  190 FORMAT (1H0,'NO PLANT SOURCE RECORD FOR STACK = ',I9,I4,2I2)      MAIN 890
      JJ=2                                                             MAIN 895
      GO TO 340                                                        MAIN 900
  200 IF (ICARD.NE.3) GO TO 230                                        MAIN 905
      M=M+1                                                            MAIN 910
      K=K+1                                                            MAIN 915
      READ (99,210) JBOIL,IYR,MAXBTU(K)                                MAIN 920
  210 FORMAT (13X,2I2,F5.0)                                            MAIN 925
      WRITE (3,220) (IDAT(I,N),I=1,2),IYR,JBOIL                        MAIN 930
  220 FORMAT (1H0,'NO PLANT SOURCE NOR STACK RECORD FOR MAX DESIGN RECORMAIN 935
     1D   BOILER = ',I9,I4,2I2)                                        MAIN 940
      MBOIL=JBOIL                                                      MAIN 945
      JJ=3                                                             MAIN 950
      IF (MAXBTU(K).EQ.0.) GO TO 510                                   MAIN 955
      IF (MAXBTU(K).EQ.1.0)KK=1                                        MAIN 960
      GO TO 530                                                        MAIN 965
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230 IF (ICARD.NE.4) GO TO 240                                          MAIN 970
240 IF (ICARD.NE.5) GO TO 270                                          MAIN 975
    READ (99,250) LBOIL,IYR                                            MAIN 980
250 FORMAT (13X,I2,I2)                                                 MAIN 985
    WRITE (3,260) (IDAT(I,N),I=1,2),LBOIL,IYR                          MAIN 990
260 FORMAT (1HO,'NO PLANT,STACK,OR MAX DESIGN RECORDS FOR BOILER WITH MAIN 995
   1 ID NUMBER = ',I4,I9,2I2,1H ,'MAXBTU SET = 1.0 IF ACTUAL BTU DATA MAIN1000
   1 IS AVAILABLE IN RECORD 6. "EXTRANEOUS DATA" ERROR GIVEN IF NO RECMAIN1005
   1ORD IS PRESENT')                                                   MAIN1010
    GO TO 140                                                          MAIN1015
270 IF (ICARD.NE.6) GO TO 300                                          MAIN1020
    N=N+1                                                              MAIN1025
    K=K+1                                                              MAIN1030
    J=J+1                                                              MAIN1035
    READ (99,280) KBOIL6,IYR,IFUEL,RATE,SULF,HEAT                      MAIN1040
280 FORMAT (13X,2I2,3X,I3,2X,F7.0,7X,F3.2,3X,F5.0)                     MAIN1045
    JBOIL6=KBOIL6                                                      MAIN1050
    WRITE (3,290) (IDAT(I,N),I=1,2),KBOIL6,IYR                         MAIN1055
290 FORMAT (1HO,'NO PLANT,STACK,OR MAX DESIGN RECORD FOR BOILER =',I9,MAIN1060
   1I4,2I2,'  MAXBTU SET = 1.0 TO PROCESS ACTBTU RECORD')              MAIN1065
    MAXBTU(K)=1.0                                                      MAIN1070
    GO TO 590                                                          MAIN1075
300 WRITE (3,310) ICARD                                                MAIN1080
310 FORMAT (1HO,'EXTRANEOUS DATA, CARD NO. =',I3)                      MAIN1085
    GO TO 140                                                          MAIN1090
320 WRITE (3,330)                                                      MAIN1095
330 FORMAT (1HO,'NO DATA AVAILABLE')                                   MAIN1100
    GO TO 610                                                          MAIN1105
340 N=N+1                                                              MAIN1110
    READ (ITAPE,150, END=610, ERR=400) (IDAT(I,N),I=1,6),ICARD         MAIN1115
    IF (ICARD.LE.0) GO TO 400                                          MAIN1120
    GO TO (350,370,390,340,340,420,400,400,400),ICARD                  MAIN1125
350 IF ((JJ.EQ.6).AND.(JFUEL.EQ.1)) GO TO 620                          MAIN1130
    IF (IBOIL.EQ.1) GO TO 710                                          MAIN1135
360 N=N+1                                                              MAIN1140
    IF (N.GT.ILAST) GO TO 610                                          MAIN1145
    K=0                                                                MAIN1150
    J=0                                                                MAIN1155
    N=1                                                                MAIN1160
    PLTCAP=0.                                                          MAIN1165
    READ (99,160) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),ICARD            MAIN1170
    IF (IRUN.EQ.1) WRITE (3,170) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),IMAIN1175
   1CARD                                                               MAIN1180
    JJ=1                                                               MAIN1185
    GO TO 340                                                          MAIN1190
370 IF ((JJ.EQ.6).AND.(JFUEL.EQ.1)) GO TO 620                          MAIN1195
380 JJ=2                                                               MAIN1200
    GO TO 340                                                          MAIN1205
390 K=K+1                                                              MAIN1210
    READ (99,210) JBOIL,IYR,MAXBTU(K)                                  MAIN1215
    MBOIL=JBOIL                                                        MAIN1220
    JJ=3                                                               MAIN1225
    GO TO 340                                                          MAIN1230
400 WRITE (3,410) ICARD                                                MAIN1235
410 FORMAT (1HO,'EXTRANEOUS DATA READ, CARD NO. =',I3)                 MAIN1240
    GO TO 340                                                          MAIN1245
420 IF (IRTYP.LE.12) GO TO 440                                         MAIN1250
    READ (ITAPE,150, END=430) (IDAT(I,N),I=1,6),ICARD                  MAIN1255
    BACKSPACE ITAPE                                                    MAIN1260
    IF ((ICARD.NE.6).AND.(JFUEL.NE.1)) GO TO 340                       MAIN1265
430 BACKSPACE ITAPE                                                    MAIN1270
    READ (ITAPE,150) (IDAT(I,N),I=1,6),ICARD                           MAIN1275
440 READ (99,280) KBOIL6,IYR,IFUEL,RATE,SULF,HEAT                      MAIN1280
    JJ=6                                                               MAIN1285
    IF (IFUEL.GT.12)IFUEL=12                                           MAIN1290
    IAR(IFUEL)=IR(IFUEL,JRTYP)                                         MAIN1295
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      IF (IAR(IFUEL))  340,340,450                                          MAIN1300
  450 J=J+1                                                                 MAIN1305
      IF (MAXBTU(K).LE.10000.) GO TO 460                                    MAIN1310
      WRITE (7,800) N,(IDAT(I,N-1),I=1,6),K,MAXBTU(K)                       MAIN1315
      GO TO 340                                                             MAIN1320
  460 IF (RATE.NE.0.0) GO TO 480                                            MAIN1325
      IF (IRUN.EQ.1) WRITE (3,470) (IDAT(I,N),I=1,2),KBOIL6,IYR,K,IFUEL     MAIN1330
  470 FORMAT (1HO,'SCC PROCESS RATE = 0.0 FOR BOILER ID = ',I9,I4,2I2,'     MAIN1335
     1K = ',I4,' FUEL TYPE = ',I3)                                          MAIN1340
  480 IF (HEAT.NE.0.0) GO TO 500                                            MAIN1345
      IF (IRUN.EQ.1) WRITE (3,490) IFUEL,K,(IDAT(I,N),I=1,2),KBOIL6,IYR     MAIN1350
  490 FORMAT (1HO,'NO HEAT CONTENT FOR FUEL J = ',I3,' K = ',I4,' BOILER    MAIN1355
     1 ID = ',I9,I4,2I2)                                                    MAIN1360
  500 IF (JFUEL.EQ.1) GO TO 590                                             MAIN1365
      IF (MAXBTU(K).EQ.1.0)KK=1                                             MAIN1370
C***COMPUTE MAXIMUM CAPACITY FOR PLANT(BOILERS 1 THROUGH K)                 MAIN1375
      PLTCAP=PLTCAP+MAXBTU(K)                                               MAIN1380
      IF (MAXBTU(K).NE.0.0) GO TO 530                                       MAIN1385
      KP=1                                                                  MAIN1390
      B(KP)=B(KP)+MAXBTU(K)                                                 MAIN1395
  510 MAXBTU(K)=1.0                                                         MAIN1400
      IF (IRUN.EQ.1) WRITE (3,520) (IDAT(I,N),I=1,2),MBOIL,IYR,K            MAIN1405
  520 FORMAT (1HO,'MAX DESIGN RECORD HAS NO CAPACITY FOR BOILER =',I9,I4    MAIN1410
     1,2I2,2X,'K= ',I5,2X,'MAXIMUM DESIGN SET = 1.0')                       MAIN1415
      GO TO 550                                                             MAIN1420
  530 DO 540 KP=2,30                                                        MAIN1425
      IF (MAXBTU(K).LE.LCAP(KP)) GO TO 550                                  MAIN1430
  540 CONTINUE                                                              MAIN1435
  550 IF (KP.EQ.1) GO TO 560                                                MAIN1440
      B(KP)=B(KP)+MAXBTU(K)                                                 MAIN1445
  560 MBOIL=JBOIL                                                           MAIN1450
      IF (JJ.LE.2) GO TO 570                                                MAIN1455
      I=1                                                                   MAIN1460
      GO TO 580                                                             MAIN1465
  570 I=2                                                                   MAIN1470
  580 JJ=6                                                                  MAIN1475
C***COMPUTE FUEL LOAD FACTOR FOR FUEL TYPE                                  MAIN1480
  590 IF (JFUEL.EQ.1) GO TO 600                                             MAIN1485
      IF (MAXBTU(K).NE.1.0) GO TO 600                                       MAIN1490
      IF (KK.EQ.1) GO TO 600                                                MAIN1495
      MAXBTU(K)=MAXBTU(K)/8760.                                             MAIN1500
  600 ACTBTU(K,J)=RATE*HEAT                                                 MAIN1505
      LDFACT(J)=SULF*ACTBTU(K,J)                                            MAIN1510
      TOTBTU(K)=TOTBTU(K)+ACTBTU(K,J)                                       MAIN1515
      MBOIL6=KBOIL6                                                         MAIN1520
      JFUEL=1                                                               MAIN1525
      IBOIL=1                                                               MAIN1530
      GO TO 340                                                             MAIN1535
  610 KN=1                                                                  MAIN1540
      IF (JFUEL.EQ.0) GO TO 850                                             MAIN1545
  620 BLDFAC(K)=0.0                                                         MAIN1550
C***COMPUTE LOAD FACTOR FOR BOILER K(FUELS 1 THROUGH J)                     MAIN1555
      IF (TOTBTU(K).LE.0.) GO TO 640                                        MAIN1560
      DO 630 IK=1,J                                                         MAIN1565
      BLDFAC(K)=BLDFAC(K)+LDFACT(IK)                                        MAIN1570
  630 CONTINUE                                                              MAIN1575
      BLDFAC(K)=BLDFAC(K)/TOTBTU(K)                                         MAIN1580
  640 DO 650 LP=1,15                                                        MAIN1585
      IF (BLDFAC(K).LE.BLF(LP)) GO TO 660                                   MAIN1590
  650 CONTINUE                                                              MAIN1595
      LP=16                                                                 MAIN1600
  660 KBOIL(LP)=KBOIL(LP)+1                                                 MAIN1605
      BENTY(KP,LP)=BENTY(KP,LP)+B(KP)                                       MAIN1610
      IBENTY(KP,LP)=IBENTY(KP,LP)+1                                         MAIN1615
      IX2=1                                                                 MAIN1620
      IF (MAXBTU(K).LE.10000.) GO TO 690                                    MAIN1625
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      WRITE (3,670) (IDAT(I,N),I=1,2),IYR,JBOIL                          MAIN1630
  670 FORMAT (1H0,'BOILER WITH ID =',I9,I4,2I2,' HAS CAPACITY OVER 10000MAIN1635
     1 MBTU''S/HR. ')                                                    MAIN1640
      DO 680 I=LF,18                                                     MAIN1645
  680 CUM2(I)=CUM2(I)-MAXBTU(K)                                          MAIN1650
  690 CONTINUE                                                           MAIN1655
      IF (MAXBTU(K).GT.0.)IX2=6.*ALOG10(MAXBTU(K))+1.0                   MAIN1660
      IF (IX2.LT.1) IX2=1                                                MAIN1665
      CUM4(IX2)=CUM4(IX2)+MAXBTU(K)                                      MAIN1670
      CUM8(IX2)=CUM8(IX2)+1.                                             MAIN1675
      DO 700 L=1,KP                                                      MAIN1680
  700 B(L)=0.0                                                           MAIN1685
      IF (ICARD.EQ.1) GO TO 710                                          MAIN1690
      IF (ICARD.EQ.2) J=0                                                MAIN1695
      JFUEL=0                                                            MAIN1700
      IF (KK.EQ.1) GO TO 710                                             MAIN1705
      KK=0                                                               MAIN1710
      GO TO 380                                                          MAIN1715
  710 DO 720 KM=1,34                                                     MAIN1720
      IF (PLTCAP.LE.LP(KM)) GO TO 730                                    MAIN1725
  720 CONTINUE                                                           MAIN1730
  730 MKAP(KM)=MKAP(KM)+1                                                MAIN1735
C***COMPUTE LOAD FACTOR FOR PLANT M(BOILERS 1 THROUGH K)                 MAIN1740
      PLDFAC=0.                                                          MAIN1745
      TOTBTX=0.                                                          MAIN1750
      DO 740 JK=1,K                                                      MAIN1755
      PLDFAC=PLDFAC+BLDFAC(JK)*TOTBTU(JK)                                MAIN1760
  740 TOTBTX=TOTBTX+TOTBTU(JK)                                           MAIN1765
      IF (TOTBTX.GT.0.)PLDFAC=PLDFAC/TOTBTX                              MAIN1770
      IF (PLTCAP.NE.0.) GO TO 760                                        MAIN1775
      IF (IRUN.EQ.1) WRITE (3,750) (IDAT(I,N-1),I=1,6),M,K               MAIN1780
  750 FORMAT (1H0,'NO PLANT CAPACITY FOR PLANT= ',I9,I4,4I2,'  M= ',I5,'MAIN1785
     1 K= ',I4,'  MAXIMUM CAPACITY SET = 1.0')                           MAIN1790
  760 DO 770 LF=1,15                                                     MAIN1795
      IF (PLDFAC.LE.BLF(LF)) GO TO 780                                   MAIN1800
  770 CONTINUE                                                           MAIN1805
      LF=16                                                              MAIN1810
  780 LPLANT(LF)=LPLANT(LF)+1                                            MAIN1815
      IF (PLTCAP.LT.100000.) GO TO 820                                   MAIN1820
      DO 810 MP=1,K                                                      MAIN1825
      DO 790 KK=LF,18                                                    MAIN1830
  790 CUM1(KK)=CUM1(KK)-PLTCAP                                           MAIN1835
      IF (MAXBTU(MP).GE.10000.) WRITE (7,800) M,(IDAT(I,N-1),I=1,6),MP,MMAIN1840
     1AXBTU(MP)                                                          MAIN1845
  800 FORMAT (1H0,'PLANT NO. ',I5,' WITH ID NO. ',I9,I4,4I2,' HAS CAPACIMAIN1850
     1TY GREATER THAN 100,000 MBTU''S/HR.',/,' BOILER NO. ',I3,' HAS CAPMAIN1855
     1ACITY = ',F10.0,' MBTU''S/HR.   PLANT CAPACITY DATA WILL NOT BE INMAIN1860
     1CLUDED IN OUTPUT')                                                 MAIN1865
  810 CONTINUE                                                           MAIN1870
      GO TO 830                                                          MAIN1875
  820 IX1=1                                                              MAIN1880
      IF (PLTCAP.GT.0.)IX1=6.*ALOG10(PLTCAP)+1.0                         MAIN1885
      IF (IX1.LT.1) IX1=1                                                MAIN1890
      CUM3(IX1)=CUM3(IX1)+PLTCAP                                         MAIN1895
      CUM7(IX1)=CUM7(IX1)+1                                              MAIN1900
  830 IF (KM.EQ.1)PLTCAP=0.                                              MAIN1905
      PENTY(KM,LF)=PENTY(KM,LF)+PLTCAP                                   MAIN1910
      IPENTY(KM,LF)=IPENTY(KM,LF)+1                                      MAIN1915
      DO 840 I=1,K                                                       MAIN1920
      BLDFAC(I)=0.0                                                      MAIN1925
      MAXBTU(I)=0.0                                                      MAIN1930
      TOTBTU(I)=0.                                                       MAIN1935
      DO 840 L=1,3                                                       MAIN1940
      ACTBTU(I,L)=0.0                                                    MAIN1945
  840 CONTINUE                                                           MAIN1950
  850 K=0                                                                MAIN1955
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      J=0                                                                MAIN1960
      JFUEL=0                                                            MAIN1965
      ISOIL=0                                                            MAIN1970
      KK=0                                                               MAIN1975
      N=1                                                                MAIN1980
      IF (KN.EQ.1) GO TO 860                                             MAIN1985
      IF (N.LE.ILAST) GO TO 360                                          MAIN1990
C***COMPUTE ROW AND COLUMN ENTRIES FOR BOILER CAPACITIES & LOAD FACTORS   MAIN1995
  860 WRITE (3,IFIT)                                                     MAIN2000
      WRITE (3,870)                                                      MAIN2005
  870 FORMAT (1H ,42X,'BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT')    MAIN2010
      WRITE (3,TITLE)                                                    MAIN2015
      WRITE (3,990)                                                      MAIN2020
      WRITE (3,880)                                                      MAIN2025
  880 FORMAT (1H ,48X,'TABLE ENTRIES ARE NUMBER OF BOILERS')             MAIN2030
      WRITE (3,1450)                                                     MAIN2035
      WRITE (3,890)                                                      MAIN2040
  890 FORMAT (1HO,33X,'BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVMAIN2045
     1ALENT BTU BASIS)')                                                 MAIN2050
      WRITE (3,900)                                                      MAIN2055
  900 FORMAT (1H ,3X,'CAPACITY',7X,'     EQUAL        >0.         >.2    MAIN2060
     1  >.3          >.4          >.6          >.8         >1.0         >1.2',/,3XMAIN2065
     1,'MBTU''S/HR',6X,'      0.          -.2          -.3          -.4  MAIN2070
     1-.6          -.8         -1.0         -1.2         -1.5')          MAIN2075
      DO 910 IJ=1,30                                                     MAIN2080
      DO 910 IK=17,18                                                    MAIN2085
      BENTY(IJ,IK)=0.                                                    MAIN2090
      IBENTY(IJ,IK)=0                                                    MAIN2095
  910 CONTINUE                                                           MAIN2100
      DO 920 IJ=1,30                                                     MAIN2105
      DO 920 IK=1,16                                                     MAIN2110
      BENTY(IJ,17)=BENTY(IJ,17)+BENTY(IJ,IK)                             MAIN2115
      IBENTY(IJ,17)=IBENTY(IJ,17)+IBENTY(IJ,IK)                          MAIN2120
      GO TO 920                                                          MAIN2125
  920 CONTINUE                                                           MAIN2130
      BENTY(1,18)=BENTY(1,17)                                            MAIN2135
      IBENTY(1,18)=IBENTY(1,17)                                          MAIN2140
      DO 930 IJ=2,30                                                     MAIN2145
      BENTY(IJ,18)=BENTY(IJ,18)+BENTY(IJ,17)+BENTY(IJ-1,18)              MAIN2150
      IBENTY(IJ,18)=IBENTY(IJ,18)+IBENTY(IJ,17)+IBENTY(IJ-1,18)          MAIN2155
  930 CONTINUE                                                           MAIN2160
      DO 940 IK=1,17                                                     MAIN2165
      COLTT(IK)=0                                                        MAIN2170
      CUMCL(IK)=0                                                        MAIN2175
      ICOLTT(IK)=0                                                       MAIN2180
      ICUMCL(IK)=0                                                       MAIN2185
      DO 940 IJ=1,30                                                     MAIN2190
      COLTT(IK)=COLTT(IK)+BENTY(IJ,IK)                                   MAIN2195
      ICOLTT(IK)=ICOLTT(IK)+IBENTY(IJ,IK)                                MAIN2200
  940 CONTINUE                                                           MAIN2205
      COLTT(18)=BENTY(30,18)                                             MAIN2210
      ICOLTT(18)=IBENTY(30,18)                                           MAIN2215
      ICUMCL(1)=ICOLTT(1)                                                MAIN2220
      CUMCL(1)=COLTT(1)                                                  MAIN2225
      DO 950 IK=2,16                                                     MAIN2230
      ICUMCL(IK)=ICOLTT(IK)+ICUMCL(IK-1)                                 MAIN2235
  950 CUMCL(IK)=COLTT(IK)+CUMCL(IK-1)                                    MAIN2240
      CUMCL(17)=COLTT(17)                                                MAIN2245
      ICUMCL(17)=ICOLTT(17)                                              MAIN2250
      CUMCL(18)=COLTT(18)                                                MAIN2255
      ICUMCL(18)=ICOLTT(18)                                              MAIN2260
      WRITE (3,960) (IBENTY(1,II),II=1,9)                                MAIN2265
  960 FORMAT (1HO,' EQUAL      0',4X,9(2X,I9))                           MAIN2270
      LCAP(1)=LCAP(1)+1                                                  MAIN2275
      NUM=1                                                              MAIN2280
      DO 1000 I=2,30                                                     MAIN2285
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      WRITE (3,970) LCAP(I-1),LCAP(I)                                   MAIN2290
  970 FORMAT (1H ,I5,'-',I6)                                            MAIN2295
      LCAP(I)=LCAP(I)+1                                                 MAIN2300
      WRITE (3,980) (IBENTY(I,II),II=1,9)                               MAIN2305
  980 FORMAT (1H+,16X,9(2X,I9))                                         MAIN2310
      IF (I/5.LT.NUM) GO TO 1000                                        MAIN2315
      NUM=NUM+1                                                         MAIN2320
      WRITE (3,990)                                                     MAIN2325
  990 FORMAT (1H )                                                      MAIN2330
 1000 CONTINUE                                                          MAIN2335
      WRITE (3,1010) (ICOLTT(IK),IK=1,9)                                MAIN2340
 1010 FORMAT (1HO,'COLUMN TOTALS',3X,9(2X,I9))                          MAIN2345
      WRITE (3,1020) (ICUMCL(IK),IK=1,9)                                MAIN2350
 1020 FORMAT (1H ,'CUMUL. TOTALS',3X,9(2X,I9))                          MAIN2355
C***PRINT SECOND HALF OF TABLE FOR NUMBER OF BOILERS BY CAP'Y AND L.F.  MAIN2360
      WRITE (3,ITIT)                                                    MAIN2365
      WRITE (3,TITLE)                                                   MAIN2370
      WRITE (3,990)                                                     MAIN2375
      WRITE (3,880)                                                     MAIN2380
      WRITE (3,1450)                                                    MAIN2385
      WRITE (3,890)                                                     MAIN2390
      WRITE (3,1030)                                                    MAIN2395
 1030 FORMAT (4X,'CAPACITY',7X,'     >1.5        >2.0        >2.5        >3.MAIN2400
     1)       >3.5        >4.0        >5.0         ROW        CUMTOT',/,3X,'MAIN2405
     1MBTU''S/HR',11X,'-2.0        -2.5        -3.0        -3.5        -4.0 MAIN2410
     1      -5.0                   TOTAL          ALL')                   MAIN2415
      WRITE (3,950) (IBENTY(1,II),II=10,18)                             MAIN2420
      NUM=1                                                             MAIN2425
      DO 1040 I=2,30                                                    MAIN2430
 1040 LCAP(I)=LCAP(I)-1                                                 MAIN2435
      DO 1050 J=2,30                                                    MAIN2440
      WRITE (3,1370) LCAP(J-1),LCAP(J)                                  MAIN2445
      LCAP(J)=LCAP(J)+1                                                 MAIN2450
      WRITE (3,980) (IBENTY(J,II),II=10,18)                             MAIN2455
      IF (J/5.LT.NUM) GO TO 1050                                        MAIN2460
      NUM=NUM+1                                                         MAIN2465
      WRITE (3,990)                                                     MAIN2470
 1050 CONTINUE                                                          MAIN2475
      WRITE (3,1010) (ICOLTT(IK),IK=10,18)                              MAIN2480
      WRITE (3,1020) (ICUMCL(IK),IK=10,18)                              MAIN2485
      TOT2=CUMCL(18)                                                    MAIN2490
      ITOT6=ICUMCL(18)                                                  MAIN2495
      DO 1060 IK=1,18                                                   MAIN2500
      CUM1(IK)=CUMCL(IK)                                                MAIN2505
      IF (TOT2.EQ.0.) GO TO 1070                                        MAIN2510
      CUM1(IK)=CUM1(IK)*100./TOT2                                       MAIN2515
 1060 CUM5(IK)=ICUMCL(IK)                                               MAIN2520
C***WRITE HEADINGS FOR FIRST HALF OF TABLE OF PLANTS BY LOAD FACTORS    MAIN2525
 1070 WRITE (3,ITIT)                                                    MAIN2530
      WRITE (3,1080)                                                    MAIN2535
 1080 FORMAT (1H ,43X,'PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT')    MAIN2540
      WRITE (3,TITLE)                                                   MAIN2545
      WRITE (3,990)                                                     MAIN2550
      WRITE (3,1150)                                                    MAIN2555
      WRITE (3,1450)                                                    MAIN2560
      WRITE (3,1090)                                                    MAIN2565
 1090 FORMAT (1HO,33X,'PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVAMAIN2570
     1LENT BTU BASIS)')                                                 MAIN2575
      WRITE (3,900)                                                     MAIN2580
C***INITIALIZE TABLE EXTENSION TO NUMBERS OF PLANTS WITHIN CAP'Y & L.F. MAIN2585
      DO 1100 KM=1,34                                                   MAIN2590
      DO 1100 LF=1,16                                                   MAIN2595
      PENTY(KM,17)=PENTY(KM,17)+PENTY(KM,LF)                            MAIN2600
      IPENTY(KM,17)=IPENTY(KM,17)+IPENTY(KM,LF)                         MAIN2605
 1100 CONTINUE                                                          MAIN2610
      PENTY(1,18)=PENTY(1,17)                                           MAIN2615
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      IPENTY(1,18)=IPENTY(1,17)                                          MAIN2620
      DO 1110 KM=2,34                                                    MAIN2625
      PENTY(KM,18)=PENTY(KM,18)+PENTY(KM,17)+PENTY(KM-1,18)              MAIN2630
      IPENTY(KM,18)=IPENTY(KM,18)+IPENTY(KM,17)+IPENTY(KM-1,18)          MAIN2635
 1110 CONTINUE                                                           MAIN2640
      DO 1120 IK=1,17                                                    MAIN2645
      ICOLTT(IK)=0                                                       MAIN2650
      ICUMCL(IK)=0                                                       MAIN2655
      DO 1120 IJ=1,34                                                    MAIN2660
      ICOLTT(IK)=ICOLTT(IK)+IPENTY(IJ,IK)                                MAIN2665
 1120 CONTINUE                                                           MAIN2670
      ICOLTT(18)=IPENTY(34,18)                                           MAIN2675
      COLTT(18)=PENTY(34,18)                                             MAIN2680
      CUMCL(1)=COLTT(1)                                                  MAIN2685
      ICUMCL(1)=ICOLTT(1)                                                MAIN2690
      DO 1130 IK=2,17                                                    MAIN2695
      ICUMCL(IK)=ICOLTT(IK)+ICUMCL(IK-1)                                 MAIN2700
 1130 CONTINUE                                                           MAIN2705
      ICUMCL(17)=ICOLTT(17)                                              MAIN2710
      ICUMCL(18)=ICOLTT(18)                                              MAIN2715
C***PRINT TABLE ENTRIES--FIRST HALF OF PLANTS BY CAP'Y & LOAD FACTOR      MAIN2720
      WRITE (3,960) (IPENTY(1,II),II=1,9)                                MAIN2725
      LP(1)=LP(1)+1                                                      MAIN2730
      NUM=1                                                              MAIN2735
      DO 1140 I=2,34                                                     MAIN2740
      WRITE (3,970) LP(I-1),LP(I)                                        MAIN2745
      LP(I)=LP(I)+1                                                      MAIN2750
      WRITE (3,980) (IPENTY(I,II),II=1,9)                                MAIN2755
      IF (I/5.LT.NUM) GO TO 1140                                         MAIN2760
      NUM=NUM+1                                                          MAIN2765
      WRITE (3,990)                                                      MAIN2770
 1140 CONTINUE                                                           MAIN2775
      WRITE (3,1010) (ICOLTT(IK),IK=1,9)                                 MAIN2780
      WRITE (3,1020) (ICUMCL(IK),IK=1,9)                                 MAIN2785
C***PRINT SECOND HALF OF TABLE--PLANTS BY CAP'Y AND LOAD FACTOR          MAIN2790
      WRITE (3,ITIT)                                                     MAIN2795
      WRITE (3,1080)                                                     MAIN2800
      WRITE (3,TITLE)                                                    MAIN2805
      WRITE (3,990)                                                      MAIN2810
      WRITE (3,1150)                                                     MAIN2815
 1150 FORMAT (1H ,48X,'TABLE ENTRIES ARE NUMBER OF PLANTS')              MAIN2820
      WRITE (3,1450)                                                     MAIN2825
      WRITE (3,1090)                                                     MAIN2830
      WRITE (3,1030)                                                     MAIN2835
      WRITE (3,960) (IPENTY(1,II),II=10,18)                              MAIN2840
      NUM=1                                                              MAIN2845
      DO 1160 I=2,34                                                     MAIN2850
 1160 LP(I)=LP(I)-1                                                      MAIN2855
      DO 1170 J=2,34                                                     MAIN2860
      WRITE (3,1370) LP(J-1),LP(J)                                       MAIN2865
      WRITE (3,980) (IPENTY(J,II),II=10,18)                              MAIN2870
      LP(J)=LP(J)+1                                                      MAIN2875
      IF (J/5.LT.NUM) GO TO 1170                                         MAIN2880
      NUM=NUM+1                                                          MAIN2885
      WRITE (3,990)                                                      MAIN2890
 1170 CONTINUE                                                           MAIN2895
      WRITE (3,990)                                                      MAIN2900
      WRITE (3,1010) (ICOLTT(IK),IK=10,18)                               MAIN2905
      WRITE (3,1020) (ICUMCL(IK),IK=10,18)                               MAIN2910
      DO 1180 IK=2,30                                                    MAIN2915
      CUM7(IK)=CUM7(IK)+CUM7(IK-1)                                       MAIN2920
      CUM8(IK)=CUM8(IK)+CUM8(IK-1)                                       MAIN2925
      CUM3(IK)=CUM3(IK)+CUM3(IK-1)                                       MAIN2930
 1180 CUM4(IK)=CUM4(IK)+CUM4(IK-1)                                       MAIN2935
      ITOT8=ICUMCL(18)                                                   MAIN2940
      IF ((ITOT6.EQ.0.).OR.(ITOT8.EQ.0.)) GO TO 1200                     MAIN2945
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      DO 1190 IK=1,30                                                   MAIN2950
      CUM7(IK)=CUM7(IK)*100./ITOT8                                      MAIN2955
 1190 CUM8(IK)=CUM8(IK)*100./ITOT6                                      MAIN2960
C***CALL PLOTS FOR CUMULATIVE AND DENSITY DISTRIBUTIONS OF BOILS & PLTS.MAIN2965
 1200 WRITE (3,ITIT)                                                    MAIN2970
      WRITE (3,TITLE)                                                   MAIN2975
      WRITE (3,1210)                                                    MAIN2980
 1210 FORMAT (47X,'BOILER AND PLANT NUMBER DISTRIBUTIONS',//,'     X--INMAIN2985
     1DIVIDUAL BOILERS',/,'     *--INDIVIDUAL PLANTS')                 MAIN2990
      TOTT6=ITOT6                                                       MAIN2995
      TOTT8=ITOT8                                                       MAIN3000
      IF ((ITOT6.EQ.0.).OR.(ITOT8.EQ.0.)) GO TO 1270                    MAIN3005
      CALL PLOT1(CUM8,CUM7,IND,TOTT6,TOTT8)                             MAIN3010
      WRITE (IPRINT,1220) ITOT6,ITOT8                                   MAIN3015
 1220 FORMAT ('     NUMBER OF BOILERS (ALL DATA) = ',I9,/,'     NUMBER OFMAIN3020
     1 PLANTS (ALL DATA) =',I9)                                         MAIN3025
      DO 1230 IK=1,18                                                   MAIN3030
 1230 CUM6(IK)=ICUMCL(IK)                                               MAIN3035
      DO 1240 IK=1,18                                                   MAIN3040
      CUM5(IK)=CUM5(IK)*100./ITOT6                                      MAIN3045
 1240 CUM6(IK)=CUM6(IK)*100./ITOT8                                      MAIN3050
C***WRITE TITLES AND CALL PLOT2 (CUMULATIVE BOILER & PLANT DATA)        MAIN3055
      WRITE (3,ITIT)                                                    MAIN3060
      WRITE (3,TITLE)                                                   MAIN3065
      WRITE (3,1250)                                                    MAIN3070
 1250 FORMAT (53X,'FUEL SULFUR CONTENTS')                               MAIN3075
      DMAX=100.                                                         MAIN3080
      IND=0                                                             MAIN3085
      CALL PLOT2(CUM5,CUM6,IND,IISIDE,JJSIDE,TOTT6,TOTT8,DMAX)          MAIN3090
      WRITE (3,1220) ITOT6,ITOT8                                        MAIN3095
C***WRITE TITLES AND CALL PLOT2 AGAIN (DENSITY DATA, BOILERS & PLANTS)  MAIN3100
      WRITE (3,ITIT)                                                    MAIN3105
      WRITE (3,TITLE)                                                   MAIN3110
      WRITE (3,1530)                                                    MAIN3115
      DMAX=AMAX1(CUM5(1),CUM6(1))                                       MAIN3120
      DO 1260 IK=1,17                                                   MAIN3125
      I=19-IK                                                           MAIN3130
      CUM5(I)=CUM5(I)-CUM5(I-1)                                         MAIN3135
      CUM6(I)=CUM6(I)-CUM6(I-1)                                         MAIN3140
 1260 DMAX=AMAX1(DMAX,CUM5(I),CUM6(I))                                  MAIN3145
      CALL PLOT2(CUM5,CUM6,IND,KKSIDE,LLSIDE,TOTT6,TOTT8,DMAX)          MAIN3150
 1270 IF ((ITOT6.EQ.0.).OR.(ITOT8.EQ.0.)) WRITE (3,1280)                MAIN3155
 1280 FORMAT (1H0,//,' GRAPHIC DISPLAY OF DATA IS NOT GIVEN FOR THIS TYPMAIN3160
     1E OF FUEL. SEE ASSOCIATED TABLES AND THE FOLLOWING 2 LINES FOR FURMAIN3165
     1THER INFORMATION',//)                                             MAIN3170
      WRITE (3,1220) ITOT6,ITOT8                                        MAIN3175
      IND=0                                                             MAIN3180
C***WRITE TITLES AND PRINT TABLE FOR BOILERS, CAP'Y BY CAP'Y AND L.P.    MAIN3185
      WRITE (3,ITIT)                                                    MAIN3190
      WRITE (3,1290)                                                    MAIN3195
 1290 FORMAT (1H ,36X,'BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT ANDMAIN3200
     1 CAPACITY')                                                       MAIN3205
      WRITE (3,TITLE)                                                   MAIN3210
      WRITE (3,990)                                                     MAIN3215
      WRITE (3,1440)                                                    MAIN3220
      WRITE (3,1450)                                                    MAIN3225
      WRITE (3,890)                                                     MAIN3230
      WRITE (3,900)                                                     MAIN3235
      DO 1300 LK=2,30                                                   MAIN3240
 1300 LCAP(LK)=LCAP(LK)-1                                               MAIN3245
      WRITE (3,1310) (BENTY(1,II),II=1,9)                               MAIN3250
 1310 FORMAT (1H0,' EQUAL     0',4X,9(1X,F10.0))                       MAIN3255
      NUM=1                                                             MAIN3260
      DO 1330 I=2,30                                                    MAIN3265
      WRITE (3,1370) LCAP(I-1),LCAP(I)                                  MAIN3270
      WRITE (3,1320) (BENTY(I,II),II=1,9)                               MAIN3275
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 1320 FORMAT (1H+,16X,9(1X,F10.0))                                      MAIN3280
      LCAP(I)=LCAP(I)+1                                                 MAIN3285
      IF (I/5.LT.NUM) GO TO 1330                                        MAIN3290
      NUM=NUM+1                                                         MAIN3295
      WRITE (3,990)                                                     MAIN3300
 1330 CONTINUE                                                          MAIN3305
      WRITE (3,990)                                                     MAIN3310
      WRITE (3,1340) (COLTT(IK),IK=1,9)                                 MAIN3315
 1340 FORMAT (1HO,'COLUMN TOTALS',3X,9(1X,F10.0))                       MAIN3320
      WRITE (3,1350) (CUMCL(IK),IK=1,9)                                 MAIN3325
 1350 FORMAT (1H ,'CUMUL. TOTALS',3X,9(1X,F10.0))                       MAIN3330
C***PRINT SECOND HALF OF TABLE-BOILER CAP'Y BY CAP'Y & LOAD FACTOR RANGEMAIN3335
      WRITE (3,ITIT)                                                    MAIN3340
      WRITE (3,1290)                                                    MAIN3345
      WRITE (3,TITLE)                                                   MAIN3350
      WRITE (3,990)                                                     MAIN3355
      WRITE (3,1440)                                                    MAIN3360
      WRITE (3,1450)                                                    MAIN3365
      WRITE (3,890)                                                     MAIN3370
      WRITE (3,1030)                                                    MAIN3375
      WRITE (3,1310) (PENTY(1,II),II=10,18)                             MAIN3380
      NUM=1                                                             MAIN3385
      DO 1360 I=2,30                                                    MAIN3390
 1360 LCAP(I)=LCAP(I)-1                                                 MAIN3395
      DO 1380 J=2,30                                                    MAIN3400
      WRITE (3,1370) LCAP(J-1),LCAP(J)                                  MAIN3405
 1370 FORMAT (1H ,I5,'-',I6)                                            MAIN3410
      LCAP(J)=LCAP(J)+1                                                 MAIN3415
      WRITE (3,1320) (PENTY(J,II),II=10,18)                             MAIN3420
      IF (J/5.LT.NUM) GO TO 1380                                        MAIN3425
      NUM=NUM+1                                                         MAIN3430
      WRITE (3,990)                                                     MAIN3435
 1380 CONTINUE                                                          MAIN3440
      WRITE (3,990)                                                     MAIN3445
      WRITE (3,1340) (COLTT(IK),IK=10,18)                               MAIN3450
      WRITE (3,1350) (CUMCL(IK),IK=10,18)                               MAIN3455
      DO 1390 IK=1,17                                                   MAIN3460
      COLTT(IK)=0                                                       MAIN3465
      CUMCL(IK)=0                                                       MAIN3470
      DO 1390 IJ=1,34                                                   MAIN3475
      COLTT(IK)=COLTT(IK)+PENTY(IJ,IK)                                  MAIN3480
 1390 CONTINUE                                                          MAIN3485
      COLTT(18)=PENTY(34,18)                                            MAIN3490
      CUMCL(1)=COLTT(1)                                                 MAIN3495
      DO 1400 IK=2,16                                                   MAIN3500
      CUMCL(IK)=COLTT(IK)+CUMCL(IK-1)                                   MAIN3505
 1400 CONTINUE                                                          MAIN3510
      CUMCL(17)=COLTT(17)                                               MAIN3515
      CUMCL(18)=COLTT(18)                                               MAIN3520
      TOT4=CUMCL(18)                                                    MAIN3525
C***WRITE TITLES AND PRINT TABLE FOR PLANTS, CAP'Y BY CAP'Y AND L.F.    MAIN3530
      WRITE (3,ITIT)                                                    MAIN3535
      WRITE (3,1410)                                                    MAIN3540
 1410 FORMAT (1H ,37X,'PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT AND CMAIN3545
     1APACITY')                                                         MAIN3550
      WRITE (3,TITLE)                                                   MAIN3555
      WRITE (3,990)                                                     MAIN3560
      WRITE (3,1440)                                                    MAIN3565
      WRITE (3,1450)                                                    MAIN3570
      WRITE (3,1090)                                                    MAIN3575
      WRITE (3,900)                                                     MAIN3580
      WRITE (3,1310) (PENTY(1,II),II=1,9)                               MAIN3585
      DO 1420 J=2,34                                                    MAIN3590
 1420 LP(J)=LP(J)-1                                                     MAIN3595
      NUM=1                                                             MAIN3600
      DO 1430 I=2,34                                                    MAIN3605
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      WRITE (3,1370) LP(I-1),LP(I)                                      MAIN3610
      WRITE (3,1320) (PENTY(I,II),II=1,9)                               MAIN3615
      LP(I)=LP(I)+1                                                     MAIN3620
      IF (I/5.LT.NUM) GO TO 1430                                        MAIN3625
      NUM=NUM+1                                                         MAIN3630
      WRITE (3,990)                                                     MAIN3635
 1430 CONTINUE                                                          MAIN3640
      WRITE (3,1340) (COLTT(IK),IK=1,9)                                 MAIN3645
      WRITE (3,1350) (CUMCL(IK),IK=1,9)                                 MAIN3650
C***WRITE TITLES AND PRINT SECOND HALF OF PLANT CAP'Y BY CAP'Y & L.F.    MAIN3655
      WRITE (3,ITIT)                                                    MAIN3660
      WRITE (3,1410)                                                    MAIN3665
      WRITE (3,TITLE)                                                   MAIN3670
      WRITE (3,990)                                                     MAIN3675
      WRITE (3,1440)                                                    MAIN3680
 1440 FORMAT (1H ,49X,'TABLE ENTRIES ARE TOTAL CAPACITY')               MAIN3685
      WRITE (3,1450)                                                    MAIN3690
 1450 FORMAT (1H ,42X,'WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES') MAIN3695
      WRITE (3,1090)                                                    MAIN3700
      WRITE (3,1030)                                                    MAIN3705
      WRITE (3,1310) (PENTY(1,II),II=10,18)                             MAIN3710
      NUM=1                                                             MAIN3715
      DO 1460 I=2,34                                                    MAIN3720
 1460 LP(I)=LP(I)-1                                                     MAIN3725
      DO 1470 J=2,34                                                    MAIN3730
      WRITE (3,1370) LP(J-1),LP(J)                                      MAIN3735
      LP(J)=LP(J)+1                                                     MAIN3740
      WRITE (3,1320) (PENTY(J,II),II=10,18)                             MAIN3745
      IF (J/5.LT.NUM) GO TO 1470                                        MAIN3750
      NUM=NUM+1                                                         MAIN3755
      WRITE (3,990)                                                     MAIN3760
 1470 CONTINUE                                                          MAIN3765
      WRITE (3,990)                                                     MAIN3770
      WRITE (3,1340) (COLTT(IK),IK=10,18)                               MAIN3775
      WRITE (3,1350) (CUMCL(IK),IK=10,18)                               MAIN3780
C***WRITE TITLES AND CALL PLOT1(BOILER AND PLANT CUMULATIVE CAP'Y DATA)  MAIN3785
      WRITE (3,ITIT)                                                    MAIN3790
      WRITE (3,TITLE)                                                   MAIN3795
      WRITE (3,1480)                                                    MAIN3800
 1480 FORMAT (48X,'BOILER AND PLANT SIZE DISTRIBUTIONS',//,'     X--INDIMAIN3805
     1VIDUAL BOILERS',/,'     *--PLANTS')                              MAIN3810
      IF ((TOT2.EQ.0.).OR.(TOT4.EQ.0.)) GO TO 1550                      MAIN3815
      DO 1490 IK=1,30                                                   MAIN3820
      CUM3(IK)=CUM3(IK)*100./TOT4                                       MAIN3825
 1490 CUM4(IK)=CUM4(IK)*100./TOT2                                       MAIN3830
      CALL PLOT1(CUM4,CUM3,IND,TOT2,TOT4)                               MAIN3835
      WRITE (IPRINT,1520) TOT2,TOT4                                     MAIN3840
C***WRITE TITLES AND CALL PLOT2 (CUMUL. DATA, CAP'Y BY CAP'Y & L.F.)     MAIN3845
      WRITE (3,ITIT)                                                    MAIN3850
      WRITE (3,TITLE)                                                   MAIN3855
      WRITE (3,1250)                                                    MAIN3860
      DMAX=100.                                                         MAIN3865
      DO 1500 IK=1,18                                                   MAIN3870
      CUM1(IK)=CUMCL(IK)+CUM1(IK)                                       MAIN3875
 1500 CUM2(IK)=CUMCL(IK)                                                MAIN3880
      TOT4=CUM2(16)                                                     MAIN3885
      DO 1510 IK=1,18                                                   MAIN3890
      CUM1(IK)=CUM1(IK)*100./TOT2                                       MAIN3895
 1510 CUM2(IK)=CUM2(IK)*100./TOT4                                       MAIN3900
      CALL PLOT2(CUM1,CUM2,IND,ISIDE,JSIDE,TOT2,TOT4,DMAX)              MAIN3905
      WRITE (IPRINT,1520) TOT2,TOT4                                     MAIN3910
 1520 FORMAT (' BOILER CAPACITIES (ALL DATA) =',F10.0,/,'  PLANT CAPACIMAIN3915
     1TIES (ALL DATA) =',F11.0)                                         MAIN3920
C***WRITE TITLES AND CALL PLOT2(DENSITY DATA, CAP'Y BY CAP'Y & FSC      MAIN3925
      WRITE (3,ITIT)                                                    MAIN3930
      WRITE (3,TITLE)                                                   MAIN3935
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      WRITE (3,1530)                                                    MAIN3940
 1530 FORMAT (51X,'FUEL SULFUR CONTENT DENSITIES')                      MAIN3945
      DMAX=AMAX1(CUM1(1),CUM2(1))                                       MAIN3950
      DO 1540 IK=1,17                                                   MAIN3955
      I=19-IK                                                           MAIN3960
      CUM1(I)=CUM1(I)-CUM1(I-1)                                         MAIN3965
      CUM2(I)=CUM2(I)-CUM2(I-1)                                         MAIN3970
 1540 DMAX=AMAX1(DMAX,CUM1(I),CUM2(I))                                  MAIN3975
      CALL PLOT2(CUM1,CUM2,IND,KSIDE,LSIDE,TOT2,TOT4,DMAX)              MAIN3980
 1550 IF ((TOT2.EQ.0.).OR.(TOT4.EQ.0.)) WRITE (3,1280)                  MAIN3985
      WRITE (IPRINT,1520) TOT2,TOT4                                     MAIN3990
      GO TO 30                                                          MAIN3995
 1560 CALL EXIT                                                         MAIN4000
      END                                                               MAIN4005
```

```
      SUBROUTINE PLOT1(DATA,CATA,IND,TOT2,TOT4)                          PLT1  10
      DIMENSION IGR(41,30)                                               PLT1  15
      DIMENSION DATA(30),CATA(30),SCALE(11)                              PLT1  20
      DATA IBLANK/'    '/,IX/'    X'/,ISTAR/'    *'/                     PLT1  25
      IF (IND)  20,10,20                                                 PLT1  30
C                                                                        PLT1  35
C   ON FIRST CALL, INITIALIZE VALUES.                                    PLT1  40
C                                                                        PLT1  45
   10 IND=999                                                            PLT1  50
      DMAX=100.                                                          PLT1  55
      SCALE(1)=0.                                                        PLT1  60
C                                                                        PLT1  65
C   START BY BLANKING IGR.                                               PLT1  70
C                                                                        PLT1  75
   20 DO 30 J=1,30                                                       PLT1  80
      DO 30 I=1,41                                                       PLT1  85
   30 IGR(I,J)=IBLANK                                                    PLT1  90
C                                                                        PLT1  95
C   PRINT GRAPH TOP                                                      PLT1 100
C                                                                        PLT1 105
      PRINT 40                                                           PLT1 110
   40 FORMAT (55X,'CAPACITY RANGES, MBTU/HR'//)                          PLT1 115
      PRINT 50                                                           PLT1 120
   50 FORMAT (5X,124H        2.2      4.6     10.0     21.5     46.4      100 PLT1 125
     1    215      464     1000     2150     4640     10000    21500    46400  PLT1 130
     1100000 )                                                           PLT1 135
      PRINT 60                                                           PLT1 140
   60 FORMAT (5X,124H    1.5  |  3.2  |  6.8  |  14.7 |  31.6 |  68.1 |  PLT1 145
     1147  |  316  |  681  | 1470  | 3160  | 6810  | 14700 | 31600 | 681PLT1 150
     100 |    )                                                          PLT1 155
      PRINT 70                                                           PLT1 160
   70 FORMAT (5X,122HI---|---|---|---|---|---|---|---|---|---|---|---|--PLT1 165
     1-|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|PLT1 170
     1---|I)                                                            PLT1 175
C                                                                        PLT1 180
C   DETERMINE VERTICAL SCALE FACTORS.                                    PLT1 185
C                                                                        PLT1 190
      DO 80 I=2,11                                                       PLT1 195
      SCALE(I)=DMAX/10.*FLOAT(I-1)                                       PLT1 200
   80 CONTINUE                                                           PLT1 205
C                                                                        PLT1 210
C   SET UP PRINT GRID IGR.                                               PLT1 215
      DMAXX=DMAX/40.                                                     PLT1 220
C                                                                        PLT1 225
      DO 140 I=1,30                                                      PLT1 230
      X1=DATA(I)                                                         PLT1 235
      X2=CATA(I)                                                         PLT1 240
      IF (X2-DMAXX)  100,100,90                                          PLT1 245
   90 IDX=X2/DMAX*40.+1.                                                 PLT1 250
      IGR(IDX,I)=ISTAR                                                   PLT1 255
      GO TO 110                                                          PLT1 260
  100 IGR(1,I)=ISTAR                                                     PLT1 265
  110 IF (X2-DMAXX)  130,130,120                                         PLT1 270
  120 IDX2=X1/DMAX*40.+1.                                                PLT1 275
      IGR(IDX2,I)=IX                                                     PLT1 280
      GO TO 140                                                          PLT1 285
  130 IGR(1,I)=IX                                                        PLT1 290
  140 CONTINUE                                                           PLT1 295
C                                                                        PLT1 300
C   PRINT GRAPH.                                                         PLT1 305
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C                                                                       PLT1 310
      DO 180 I=1,10                                                     PLT1 315
      J=12-I                                                            PLT1 320
      K=(J-1)*4+1                                                       PLT1 325
      PRINT 150,SCALE(J),(IGR(K,L),L=1,30),SCALE(J)                     PLT1 330
  150 FORMAT (F5.0,1H-,30A4,1H-,F5.0)                                   PLT1 335
      DO 160 M=1,3                                                      PLT1 340
      K=K-1                                                             PLT1 345
  160 PRINT 170,(IGR(K,L),L=1,30)                                       PLT1 350
  170 FORMAT (5X,'I',30A4,'I')                                          PLT1 355
  180 CONTINUE                                                          PLT1 360
      PRINT 150,SCALE(1),(IGR(1,L),L=1,30),SCALE(1)                     PLT1 365
      PRINT 70                                                          PLT1 370
      PRINT 60                                                          PLT1 375
      PRINT 50                                                          PLT1 380
      PRINT 40                                                          PLT1 385
      RETURN                                                            PLT1 390
      END                                                               PLT1 395
```

```
      SUBROUTINE PLOT2(DATA,CORAQ,IND,ISIDE,JSIDE,TOT2,TOT4,DMAX)          PLT2  10
      DIMENSION IGR(21,36)                                                 PLT2  15
      DIMENSION DATA(36),SCALE(11),CORAQ(36),ISIDE(3,21),JSIDE(3,21)       PLT2  20
      DIMENSION SCH(16)                                                    PLT2  25
      DATA SCH/0.,0.,.2,.3,.4,.6,.8,1.,1.2,1.5,2.0,2.5,3.0,3.5,4.0,5.0/    PLT2  30
      DATA ISPACE/'    '/,ISPASK/'   *'/,ISPACX/'   X'/                     PLT2  35
      IF (IND)  20,10,20                                                   PLT2  40
C                                                                          PLT2  45
C   ON FIRST CALL, INITIALIZE VALUES.                                      PLT2  50
C                                                                          PLT2  55
   10 IND=999                                                              PLT2  60
      IPRINT=3                                                             PLT2  65
      ISTAR=ISPASK                                                         PLT2  70
      IBLANK=ISPACE                                                        PLT2  75
      IX=ISPACX                                                            PLT2  80
      SCALE(1)=0.                                                          PLT2  85
C                                                                          PLT2  90
C   START BY BLANKING IGR.                                                 PLT2  95
C                                                                          PLT2 100
   20 DO 30 I=1,21                                                         PLT2 105
      DO 30 J=1,36                                                         PLT2 110
   30 IGR(I,J)=IBLANK                                                      PLT2 115
C                                                                          PLT2 120
C   DETERMINE VERTICAL SCALE FACTORS.                                      PLT2 125
C                                                                          PLT2 130
      DMAX1=DMAX/20.                                                       PLT2 135
      DO 40 I=2,11                                                         PLT2 140
      SCALE(I)=DMAX/10.*FLOAT(I-1)                                         PLT2 145
   40 CONTINUE                                                             PLT2 150
C                                                                          PLT2 155
C   SET UP PRINT GRID IGR.                                                 PLT2 160
C                                                                          PLT2 165
      DO 60 I=1,16                                                         PLT2 170
      X2=DATA(I)                                                           PLT2 175
      IDX2=X2*20./DMAX+1.                                                  PLT2 180
      IF (X2.LE.DMAX1) IDX2=1                                              PLT2 185
      IGR(IDX2,I)=ISTAR                                                    PLT2 190
   60 CONTINUE                                                             PLT2 195
C                                                                          PLT2 200
C   PRINT GRAPH.                                                           PLT2 205
C                                                                          PLT2 210
      WRITE (IPRINT,70)                                                    PLT2 215
   70 FORMAT (33X,66HI---|---|---|---|---|---|---|---|---|---|---|---|--PLT2 220
     1-|---|---|---|I)                                                     PLT2 225
      DO 100 I=1,10                                                        PLT2 230
      J=12-I                                                               PLT2 235
      K=J+J-1                                                              PLT2 240
      WRITE (IPRINT,80) (ISIDE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=1,16),SCPLT2 245
     1ALE(J),(ISIDE(L,K),L=1,3)                                            PLT2 250
   80 FORMAT (17X,2A4,A2,F5.1,2H -,16A4,2H- ,F5.1,2X,2A4,A2)               PLT2 255
      K=K-1                                                                PLT2 260
      WRITE (IPRINT,90) (ISIDE(L,K),L=1,3),(IGR(K,L),L=1,16),(ISIDE(L,K)PLT2 265
     1,L=1,3)                                                              PLT2 270
   90 FORMAT (17X,2A4,A2,5X,2H I,16A4,2HI ,7X,2A4,A2)                      PLT2 275
  100 CONTINUE                                                             PLT2 280
      WRITE (IPRINT,80) (ISIDE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=1,16),SCPLT2 285
     1ALE(1),(ISIDE(L,1),L=1,3)                                            PLT2 290
      WRITE (IPRINT,70)                                                    PLT2 295
      WRITE (IPRINT,110) (SCH(I),I=1,16),(SCH(I),I=2,16)                   PLT2 300
  110 FORMAT (35X,15F4.1,'>',F3.1,/,35X,15('-',F3.1),/,55X,'FUEL SULFUR PLT2 305
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```
     1CONTENT',//)                                                                  PLT2 310
      WRITE (IPRINT,70)                                                             PLT2 315
      DO 120 I=1,21                                                                 PLT2 320
      DO 120 J=1,16                                                                 PLT2 325
  120 IGR(I,J)=IBLANK                                                               PLT2 330
      DO 130 I=1,16                                                                 PLT2 335
      X1=CONAQ(I)                                                                   PLT2 340
      IDX=X1/DMAX*20.+1.                                                            PLT2 345
      IF (X1.LE.DMAX1) IDX=1                                                        PLT2 350
      IGR(IDX,I)=IX                                                                 PLT2 355
  130 CONTINUE                                                                      PLT2 360
      DO 140 I=1,10                                                                 PLT2 365
      J=12-I                                                                        PLT2 370
      K=J+J-1                                                                       PLT2 375
      WRITE (IPRINT,80)  (JSIDE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=1,16),SCPLT2 380
     1ALE(J),(JSIDE(L,K),L=1,3)                                                     PLT2 385
      K=K-1                                                                         PLT2 390
      WRITE (IPRINT,90)  (JSIDE(L,K),L=1,3),(IGR(K,L),L=1,16),(JSIDE(L,K)PLT2 395
     1,L=1,3)                                                                       PLT2 400
  140 CONTINUE                                                                      PLT2 405
      WRITE (IPRINT,80)  (JSIDE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=1,16),SCPLT2 410
     1ALE(1),(JSIDE(L,1),L=1,3)                                                     PLT2 415
      WRITE (IPRINT,70)                                                             PLT2 420
      WRITE (IPRINT,110)  (SCH(I),I=1,16),(SCH(I),I=2,16)                           PLT2 425
      RETURN                                                                        PLT2 430
      END                                                                           PLT2 435
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C     SUBPROGRAM FOR BOILER POPULATION DATA ANALYSIS                          MAIN  10
C     DATA EITHER HAS BEEN ORDERED OR IS ASSUMED TO BE IN ORDER               MAIN  15
      INTEGER TOT5,TOT6,TOT7,TOT8                                             MAIN  20
      REAL LDFACT,MAXBTU,IBENTY,IPENTY,ICOLTT,ICUMCL                          MAIN  25
      INTEGER TOTT6,TOTT8                                                     MAIN  30
      DIMENSION BLF(15)                                                       MAIN  35
      DIMENSION ISIDE(3,21),JSIDE(3,21),KSIDE(3,21),LSIDE(3,21),CUM1(36)MAIN  40
     1,CUM2(36),CUM5(36),CUM6(36),CUM7(30),CUM8(30)                           MAIN  45
      DIMENSION CUM3(30),CUM4(30),IISIDE(3,21),JJSIDE(3,21),KKSIDE(3,21)MAIN  50
     1,LISIDE(3,21)                                                           MAIN  55
      DIMENSION IB(12,13),IAB(12),FACT(12)                                    MAIN  60
      DIMENSION LABEL(11,13),TITLE(11),TOTBTU(60),ITIT(18),ITIT1(18,2)  MAIN  65
      DIMENSION ALFUEL(11),ALCOAL(11),RESOIL(11),DISOIL(11),ALLOIL(11),NMAIN  70
     1ATGAS(11),PROGAS(11),LPGGAS(11),ALLGAS(11),COKE(11),OTHER(11),BAGGMAIN  75
     1AS(11),MULTFL(11)                                                       MAIN  80
      REAL*4 LABEL,TITLE,LPGGAS,NATGAS,MULTFL                                 MAIN  85
      COMMON LCAP(30),MAXBTU(60),ACTBTU(60,3),LDFACT(3),BLDFAC(60),IBENTMAIN  90
     1Y(30,18),CUMCL(18),COLTT(18),LP(35),IPENTY(35,18),MKAP(35),IDAT(6,MAIN  95
     1600),DAT(15,5),KBOIL(18),ICOLTT(18),ICUMCL(18),B(30),IP(35),LPLANTMAIN 100
     1(18),BENTY(30,18),PENTY(35,18)                                          MAIN 105
      EQUIVALENCE (LABEL(1),ALFUEL(1)),(LABEL(12),ALCOAL(1)),(LABEL(23),MAIN 110
     1RESOIL(1)),(LABEL(34),DISOIL(1)),(LABEL(45),ALLOIL(1)),(LABEL(56),MAIN 115
     1NATGAS(1)),(LABEL(67),PROGAS(1)),(LABEL(78),COKE(1)),(LABEL(89),OTMAIN 120
     1HER(1)),(LABEL(100),LPGGAS(1)),(LABEL(111),ALLGAS(1)),(LABEL(122),MAIN 125
     1BAGGAS(1)),(LABEL(133),MULTFL(1))                                       MAIN 130
      DATA ITIT1/'(1H1',',36X',',''BO','ILER',' POP','ULAT','ION ','DATAMAIN 135
     1',' - C',',OMBE','RCIA','L-IN',',STIT','UTIO','NAL ','BOIL','ERS'',MAIN 140
     1')   ',',(1H1',',46X',',''BO','ILER',' POP','ULAT','ION ','DATA',' MAIN 145
     1- I','NDUS','TRIA','L BO','ILER','S'') ',4*'    '/                    MAIN 150
      DATA FACT/.01,.01,.01,.0394,.03525,.0205,.0359,.01,.01,.0227,.01,.MAIN 155
     101/                                                                     MAIN 160
      DATA BLF/0.,.2,.3,.4,.6,.8,1.0,1.2,1.5,2.0,2.5,3.0,3.5,4.0,5.0/   MAIN 165
      DATA IB/15*1,12*0,1,12*0,1,10*0,1,1,12*0,1,12*0,1,12*0,1,12*0,1,0,MAIN 170
     10,1,9*0,1,7*0,1,1,0,0,1,12*0,1,0,12*1/                                  MAIN 175
      DATA ALFUEL/'(1H ',',52X',',''AL','L BO','ILER','S AN','D AL','L FMAIN 180
     1U','ELS ',',    ',',  '')'/                                             MAIN 185
      DATA ALCOAL/'(53X',',''AL','L CO','AL-F','IRED',' BOI','LERS','   MAIN 190
     1 ',',    ',',    ',',  '')'/                                           MAIN 195
      DATA RESOIL/'(52X',',''RE','SIDU','AL O','IL-F','IRED',' BOI','LERMAIN 200
     1S',',    ',',    ',',  '')'/                                           MAIN 205
      DATA DISOIL/'(51X',',''DI','STIL','LATE',' OIL','-FIR','ED B','OILMAIN 210
     1ER','S  ',',    ',',    ',',  '')'/                                    MAIN 215
      DATA ALLOIL/'(54X',',''AL','L OI','L-FI','RED ','BOIL','ERS ','   MAIN 220
     1 ',',    ',',    ',',  '')'/                                           MAIN 225
      DATA NATGAS/'(52X',',''NA','TURA','L GA','S-FI','RED ','BOIL','ERSMAIN 230
     1 ',',    ',',    ',',  '')'/                                           MAIN 235
      DATA PROGAS/'(52X',',''PR','OCES','S GA','S-FI','RED ','BOIL','ERSMAIN 240
     1 ',',    ',',    ',',  '')'/                                           MAIN 245
      DATA LPGGAS/'(48X',',''LI','QUID',' PET','ROLE','UM G','AS-F','IREMAIN 250
     1D',' BOI','LERS',',    ',',  '')'/                                    MAIN 255
      DATA ALLGAS/'(54X',',''AL','L GA','S-FI','RED ','BOIL','ERS ','   MAIN 260
     1 ',',    ',',    ',',  '')'/                                           MAIN 265
      DATA COKE/'(53X',',''AL','L CO','KE-F','IRED',' BOI','LERS','    'MAIN 270
     1,',    ',',    ',',  '')'/                                            MAIN 275
      DATA BAGGAS/'(52X',',''AL','L BA','GGAS','E-FI','RED ','BOIL','ERSMAIN 280
     1 ',',    ',',    ',',  '')'/                                           MAIN 285
      DATA OTHER/'(49X',',''AL','L NO','OD A','ND O','THER','-FIR','ED BMAIN 290
     1','OILE','RS  ',',    ',',  '')'/                                      MAIN 295
      DATA MULTFL/'(49X',',''MU','LTIP','LE F','UEL-','FIRE','D BO','ILEMAIN 300
     1R','S ON','LY  ',',    ',',  '')'/                                    MAIN 305
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      DATA CUM3/30*0./,CUM4/30*0./,CUM7/30*0./,CUM8/30*0./,CUM5/36*0./,CMAIN 310
     1UM6/36*0./                                                          MAIN 315
      DATA ISIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','CAMAIN 320
     1PA','CITI','ES  ','BOIL','ER  ','    ',24*'    '/                  MAIN 325
      DATA JSIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','CAMAIN 330
     1PA','CITI','ES  ','PLAN','T   ','    ',24*'    '/                  MAIN 335
      DATA KSIDE/27*'    ','PERC','ENT ','    ','CAPA','CITI','ES, ','BOMAIN 340
     1IL','ER  ',28*'    '/                                               MAIN 345
      DATA LSIDE/27*'    ','PERC','ENT ','    ','CAPA','CITI','ES, ','PLMAIN 350
     1AN','T   ',28*'    '/                                               MAIN 355
      DATA IISIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','BMAIN 360
     1OIL','ERS ','    ','NUMB','ER O','F   ',24*'    '/                 MAIN 365
      DATA JJSIDE/27*'    ','PERC','ENT ','    ','CUMU','LATI','VE  ','PMAIN 370
     1LAN','TS  ','    ','NUMB','ER O','F   ',24*'    '/                 MAIN 375
      DATA KKSIDE/27*'    ','PERC','ENT ','    ','BOIL','ERS ','    ','NMAIN 380
     1UMB','ER O','F   ',27*'    '/                                       MAIN 385
      DATA LLSIDE/27*'    ','PERC','ENT ','    ','PLAN','TS  ','    ','NMAIN 390
     1UMB','ER O','F   ',27*'    '/                                       MAIN 395
      CALL REREAD                                                         MAIN 400
      IND=0                                                               MAIN 405
      IPRINT=3                                                            MAIN 410
      IX1=1                                                               MAIN 415
      IX2=1                                                               MAIN 420
      ITAPE=8                                                             MAIN 425
      READ (1,20) ILAST,ITITL                                             MAIN 430
      DO 10 LL=1,18                                                       MAIN 435
   10 ITIT(LL)=ITIT1(LL,ITITL)                                            MAIN 440
   20 FORMAT (2I5)                                                        MAIN 445
   30 READ (1,20, END=1690) IRTYP,IRUN                                    MAIN 450
      DO 40 LL=1,11                                                       MAIN 455
   40 TITLE(LL)=LABEL(LL,IRTYP)                                           MAIN 460
      PLTCAP=0.                                                           MAIN 465
      PLDFAC=0.                                                           MAIN 470
      DO 50 KP=1,30                                                       MAIN 475
      B(KP)=0.0                                                           MAIN 480
      CUM3(KP)=0.                                                         MAIN 485
      CUM4(KP)=0.                                                         MAIN 490
      CUM7(KP)=0.                                                         MAIN 495
      CUM8(KP)=0.                                                         MAIN 500
      DO 50 LP=1,18                                                       MAIN 505
      LPLANT(LP)=0                                                        MAIN 510
      KBOIL(LP)=0                                                         MAIN 515
      IBENTY(KP,LP)=0                                                     MAIN 520
      BENTY(KP,LP)=0                                                      MAIN 525
   50 CONTINUE                                                            MAIN 530
      CUM1(1)=0.                                                          MAIN 535
      CUM2(1)=0.                                                          MAIN 540
      CUM5(1)=0.                                                          MAIN 545
      CUM6(1)=0.                                                          MAIN 550
      DO 60 KM=1,35                                                       MAIN 555
      MKAP(KM)=0                                                          MAIN 560
      CUM1(KM+1)=0.                                                       MAIN 565
      CUM2(KM+1)=0.                                                       MAIN 570
      CUM5(KM+1)=0.                                                       MAIN 575
      CUM6(KM+1)=0.                                                       MAIN 580
      DO 60 LP=1,18                                                       MAIN 585
      IPENTY(KM,LP)=0                                                     MAIN 590
      PENTY(KM,LP)=0                                                      MAIN 595
   60 CONTINUE                                                            MAIN 600
      DO 70 K=1,60                                                        MAIN 605
      MAXBTU(K)=0.0                                                       MAIN 610
      TOTBTU(K)=0.0                                                       MAIN 615
      DO 70 J=1,3                                                         MAIN 620
      ACTBTU(K,J)=0.0                                                     MAIN 625
      LDFACT(J)=0.0                                                       MAIN 630
   70 CONTINUE                                                            MAIN 635
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      JRTYP=IBTYP                                                       MAIN 640
      IF (JRTYP.GE.13)JRTYP=1                                           MAIN 645
      DO 80 I=1,12                                                      MAIN 650
   80 IAP(I)=IB(JRTYP,I)                                                MAIN 655
      JFUEL=0                                                           MAIN 660
      M=0                                                               MAIN 665
      N=0                                                               MAIN 670
      J=0                                                               MAIN 675
      K=0                                                               MAIN 680
      L=0                                                               MAIN 685
      IBOIL=0                                                           MAIN 690
      KK=0                                                              MAIN 695
      KM=0                                                              MAIN 700
      JJ=0                                                              MAIN 705
      LCAP(1)=0                                                         MAIN 710
      DO 90 KP=2,11                                                     MAIN 715
      LCAP(KP)=LCAP(KP-1)+10                                            MAIN 720
   90 CONTINUE                                                          MAIN 725
      DO 100 KP=12,20                                                   MAIN 730
      LCAP(KP)=LCAP(KP-1)+100                                           MAIN 735
  100 CONTINUE                                                          MAIN 740
      DO 110 KP=21,29                                                   MAIN 745
      LCAP(KP)=LCAP(KP-1)+1000                                          MAIN 750
  110 CONTINUE                                                          MAIN 755
      LCAP(30)=100000                                                   MAIN 760
      DO 120 KM=1,29                                                    MAIN 765
      LP(KM)=LCAP(KM)                                                   MAIN 770
  120 CONTINUE                                                          MAIN 775
      DO 130 KM=30,33                                                   MAIN 780
      LP(KM)=LP(KM-1)+10000                                             MAIN 785
  130 CONTINUE                                                          MAIN 790
      LP(34)=100000                                                     MAIN 795
      IF (IRUN.NE.1) GO TO 140                                          MAIN 800
      WRITE (3,1111)                                                    MAIN 805
      WRITE (3,1115)                                                    MAIN 810
      WRITE (3,1140)                                                    MAIN 815
      WRITE (3,1140)                                                    MAIN 820
  140 N=N+1                                                             MAIN 825
      READ (ITAPE,150, END=330, ERR=420) (IDAT(I,N),I=1,6),ICARD        MAIN 830
  150 FORMAT (I9,I4,4I2,58X,I1)                                         MAIN 835
      IF (ICARD.NE.1) GO TO 190                                         MAIN 840
C *** READ PLANT NAME, OWNER, PERSON TO CONTACT, AND ICARD              MAIN 845
      READ (99,170) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),ICARD           MAIN 850
  170 FORMAT (I9,I4,4I2,14A4,A2,I1)                                     MAIN 855
      M=M+1                                                             MAIN 860
C *** WRITE PLANT NAME,PERSON TO CONTACT, OWNER, AND ICARD              MAIN 865
      IF (IRUN.EQ.1) WRITE (3,180) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),IMAIN 870
     1ICARD                                                             MAIN 875
  180 FORMAT (1H0,I9,I4,4I2,2X,10A4,2X,4A4,2X,A2,I1)                    MAIN 880
      JJ=1                                                              MAIN 885
      GO TO 360                                                         MAIN 890
  190 IF (ICARD.NE.2) GO TO 210                                         MAIN 895
      M=M+1                                                             MAIN 900
      WRITE (3,200) (IDAT(I,N),I=1,4)                                   MAIN 905
  200 FORMAT (1H0,'NO PLANT SOURCE RECORD FOR STACK = ',I9,I4,2I2)      MAIN 910
      JJ=2                                                              MAIN 915
      GO TO 360                                                         MAIN 920
  210 IF (ICARD.NE.3) GO TO 240                                         MAIN 925
      M=M+1                                                             MAIN 930
      K=K+1                                                             MAIN 935
      READ (99,220) JBOIL,IYR,MAXBTU(K)                                 MAIN 940
  220 FORMAT (13X,2I2,F5.0)                                             MAIN 945
      WRITE (3,230) (IDAT(I,N),I=1,2),IYR,JBOIL                         MAIN 950
  230 FORMAT (1H0,'NO PLANT SOURCE NOR STACK RECORD FOR MAX DESIGN RECORMAIN 955
     1D   BOILER = ',I9,I4,2I2)                                         MAIN 960
      MBOIL=JBOIL                                                       MAIN 965
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      JJ=3                                                                  MAIN 970
      IF (MAXBTU(K).EQ.0.) GO TO 540                                        MAIN 975
      IF (MAXBTU(K).EQ.1.0)KK=1                                             MAIN 980
      GO TO 560                                                             MAIN 985
  240 IF (ICARD.NE.4) GO TO 250                                             MAIN 990
  250 IF (ICARD.NE.5) GO TO 280                                             MAIN 995
      READ (99,260) LBOIL,IYR                                               MAIN1000
  260 FORMAT (13X,I2,I2)                                                    MAIN1005
      WRITE (3,270) (IDAT(I,N),I=1,2),LBOIL,IYR                             MAIN1010
  270 FORMAT (1HO,'NO PLANT,STACK,OR MAX DESIGN RECORDS FOR BOILER WITH MAIN1015
     1 ID NUMBER = ',I4,I9,2I2,1H ,'MAXBTU SET = 1.0 IF ACTUAL BTU DATA MAIN1020
     1 IS AVAILABLE IN RECORD 6. "EXTRANEOUS DATA" ERROR GIVEN IF NO RECMAIN1025
     1ORD IS PRESENT')                                                      MAIN1030
      GO TO 140                                                             MAIN1035
  280 IF (ICARD.NE.6) GO TO 310                                             MAIN1040
      M=M+1                                                                 MAIN1045
      K=K+1                                                                 MAIN1050
      J=J+1                                                                 MAIN1055
      READ (99,290) KBOIL6,IYR,IFUEL,RATE,SULF,HEAT                         MAIN1060
  290 FORMAT (13X,2I2,3X,I3,2X,F7.0,7X,F3.2,3X,F5.0)                        MAIN1065
      JBOIL6=KBOIL6                                                         MAIN1070
      WRITE (3,300) (IDAT(I,N),I=1,2),KBOIL6,IYR                            MAIN1075
  300 FORMAT (1HO,'NO PLANT,STACK,OR MAX DESIGN RECORD FOR BOILER =',I9,MAIN1080
     1I4,2I2,'  MAXBTU SET = 1.0 TO PROCESS ACTBTU RECORD')                 MAIN1085
      MAXBTU(K)=1.0                                                         MAIN1090
      GO TO 590                                                             MAIN1095
  310 WRITE (3,320) ICARD                                                   MAIN1100
  320 FORMAT (1HO,'EXTRANEOUS DATA, CARD NO. =',I3)                         MAIN1105
      GO TO 140                                                             MAIN1110
  330 CONTINUE                                                              MAIN1115
      WRITE (3,350)                                                         MAIN1120
  350 FORMAT (1HO,'NO DATA AVAILABLE')                                      MAIN1125
      GO TO 670                                                             MAIN1130
  360 N=N+1                                                                 MAIN1135
      READ (ITAPE,150, END=670, ERR=420) (IDAT(I,N),I=1,6),ICARD            MAIN1140
      IF (ICARD.LE.0) GO TO 420                                             MAIN1145
      GO TO (370,390,410,360,360,440,420,420,420),ICARD                     MAIN1150
  370 IF ((JJ.EQ.6).AND.(JFUEL.EQ.1)) GO TO 690                             MAIN1155
      IF (IBOIL.EQ.1) GO TO 830                                             MAIN1160
  380 M=M+1                                                                 MAIN1165
      IF (M.GT.ILAST) GO TO 670                                             MAIN1170
      K=0                                                                   MAIN1175
      J=0                                                                   MAIN1180
      N=1                                                                   MAIN1185
      PLTCAP=0.                                                             MAIN1190
      READ (99,170) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),ICARD               MAIN1195
      IF (IBUN.EQ.1) WRITE (3,180) (IDAT(I,N),I=1,6),(DAT(I,N),I=1,15),IMAIN1200
     1CARD                                                                  MAIN1205
      JJ=1                                                                  MAIN1210
      GO TO 360                                                             MAIN1215
  390 IF ((JJ.EQ.6).AND.(JFUEL.EQ.1)) GO TO 690                             MAIN1220
  400 CONTINUE                                                              MAIN1225
      JJ=2                                                                  MAIN1230
      GO TO 360                                                             MAIN1235
  410 K=K+1                                                                 MAIN1240
      READ (99,220) JBOIL,IYR,MAXBTU(K)                                     MAIN1245
      MBOIL=JBOIL                                                           MAIN1250
      JJ=3                                                                  MAIN1255
      GO TO 360                                                             MAIN1260
  420 WRITE (3,430) ICARD                                                   MAIN1265
  430 FORMAT (1HO,'EXTRANEOUS DATA READ, CARD NO. =',I3)                    MAIN1270
      GO TO 360                                                             MAIN1275
  440 IF (IRTYP.LE.12) GO TO 460                                            MAIN1280
      READ (ITAPE,150, END=450) (IDAT(I,N),I=1,6),ICARD                     MAIN1285
      BACKSPACE ITAPE                                                       MAIN1290
      IF ((ICARD.NE.6).AND.(JFUEL.NE.1)) GO TO 360                          MAIN1295
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  450 BACKSPACE ITAPE                                                    MAIN1300
      READ (ITAPE,150) (IDAT(I,N),I=1,6),ICARD                           MAIN1305
  460 CONTINUE                                                           MAIN1310
      READ (99,290) KBOIL6,IYR,IFUEL,RATE,SULF,HEAT                      MAIN1315
      JJ=6                                                               MAIN1320
      IF (IFUEL.GT.12) IFUEL=12                                          MAIN1325
      IAR(IFUEL)=IR(IFUEL,JRTYP)                                         MAIN1330
      IF (IAR(IFUEL))  360,360,470                                       MAIN1335
  470 J=J+1                                                              MAIN1340
      IF (MAXBTU(K).LE.10000.) GO TO 480                                 MAIN1345
      WRITE (7,950) N,(IDAT(I,N-1),I=1,6),K,MAXBTU(K)                    MAIN1350
      GO TO 360                                                          MAIN1355
  480 CONTINUE                                                           MAIN1360
      IF (RATE.NE.0.0) GO TO 500                                         MAIN1365
      IF (IRUN.EQ.1) WRITE (3,490) (IDAT(I,N),I=1,2),KBOIL6,IYR,K,IFUEL  MAIN1370
  490 FORMAT (1H0,'SCC PROCESS RATE = 0.0 FOR BOILER ID = ',I9,I4,2I2,' MAIN1375
     1K = ',I4,' FUEL TYPE = ',I3)                                       MAIN1380
  500 IF (HEAT.NE.0.0) GO TO 520                                         MAIN1385
      IF (IRUN.EQ.1) WRITE (3,510) IFUEL,K,(IDAT(I,N),I=1,2),KBOIL6,IYR MAIN1390
  510 FORMAT (1H0,'NO HEAT CONTENT FOR FUEL J = ',I3,' K = ',I4,' BOILERMAIN1395
     1 ID = ',I9,I4,2I2)                                                 MAIN1400
  520 ACTBTU(K,J)=RATE*HEAT/1000.                                        MAIN1405
      IF (JFUEL.EQ.1) GO TO 610                                          MAIN1410
      IF (MAXBTU(K).EQ.1.0)KK=1                                          MAIN1415
C***COMPUTE MAXIMUM CAPACITY FOR PLANT(BOILERS 1 THROUGH K)              MAIN1420
      PLTCAP=PLTCAP+MAXBTU(K)                                            MAIN1425
      IF (MAXBTU(K).NE.0.0) GO TO 560                                    MAIN1430
      B(1)=B(1)+ACTBTU(K,J)                                              MAIN1435
  540 MAXBTU(K)=1.0                                                      MAIN1440
      IF (IRUN.EQ.1) WRITE (3,550) (IDAT(I,N),I=1,2),MBOIL,IYR,K         MAIN1445
  550 FORMAT (1H0,'MAX DESIGN RECORD HAS NO CAPACITY FOR BOILER =',I9,I4MAIN1450
     1,2I2,2X,'K= ',I5,2X,'MAXIMUM DESIGN SET = 1.0')                    MAIN1455
      GO TO 560                                                          MAIN1460
  560 MBOIL=JBOIL                                                        MAIN1465
      IF (JJ.LE.2) GO TO 570                                             MAIN1470
      I=1                                                                MAIN1475
      GO TO 580                                                          MAIN1480
  570 I=2                                                                MAIN1485
  580 JJ=6                                                               MAIN1490
C***COMPUTE FUEL LOAD FACTOR FOR FUEL TYPE                               MAIN1495
  590 IF (MAXBTU(K).NE.1.0) GO TO 610                                    MAIN1500
      IF (KK.EQ.1) GO TO 610                                             MAIN1505
      MAXBTU(K)=MAXBTU(K)/8760.                                          MAIN1510
  610 LDFACT(J)=SULF*ACTBTU(K,J)                                         MAIN1515
      TOTBTU(K)=TOTBTU(K)+ACTBTU(K,J)                                    MAIN1520
      IF (MAXBTU(K).NE.1..OR.KK.EQ.1) GO TO 620                          MAIN1525
      B(1)=B(1)+ACTBTU(K,J)                                              MAIN1530
      GO TO 650                                                          MAIN1535
  620 DO 630 KP=1,30                                                     MAIN1540
      IF (MAXBTU(K).LE.LCAP(KP)) GO TO 640                               MAIN1545
  630 CONTINUE                                                           MAIN1550
      KP=30                                                              MAIN1555
  640 B(KP)=B(KP)+ACTBTU(K,J)                                            MAIN1560
  650 CONTINUE                                                           MAIN1565
      IF (ACTBTU(K,J).LE.0.) GO TO 660                                   MAIN1570
      ACTBTU(K,J)=RATE*FACT(IFUEL)*SULF                                  MAIN1575
  660 MBOIL6=KBOIL6                                                      MAIN1580
      JFUEL=1                                                            MAIN1585
      IBOIL=1                                                            MAIN1590
      GO TO 360                                                          MAIN1595
  670 CONTINUE                                                           MAIN1600
      KN=1                                                               MAIN1605
      IF (JFUEL.EQ.0) GO TO 1010                                         MAIN1610
  690 BLDFAC(K)=0.0                                                      MAIN1615
C***COMPUTE LOAD FACTOR FOR BOILER K(FUELS 1 THROUGH J)                  MAIN1620
      IF (TOTBTU(K).LE.0.) GO TO 710                                     MAIN1625
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      DO 700 IK=1,J                                                     MAIN1630
      BLDFAC(K)=BLDFAC(K)+LDFACT(IK)                                    MAIN1635
  700 CONTINUE                                                          MAIN1640
      BLDFAC(K)=BLDFAC(K)/TOTBTU(K)                                     MAIN1645
  710 CONTINUE                                                          MAIN1650
      DO 730 LF=1,15                                                    MAIN1655
      IF (BLDFAC(K).LE.BLF(LF)) GO TO 750                               MAIN1660
  730 CONTINUE                                                          MAIN1665
      LF=16                                                             MAIN1670
  750 KBOIL(LF)=KBOIL(LF)+1                                             MAIN1675
      IBENTY(KP,LF)=IBENTY(KP,LF)+B(KP)                                 MAIN1680
      DO 770 IK=1,J                                                     MAIN1685
  770 BENTY(KP,LF)=BENTY(KP,LF)+ACTBTU(K,IK)                            MAIN1690
      IX2=1                                                             MAIN1695
      IF (MAXBTU(K).LE.10000.) GO TO 810                                MAIN1700
      WRITE (3,790) (IDAT(I,N),I=1,2),IYR,JBOIL                         MAIN1705
  790 FORMAT (1H0,'BOILER WITH ID =',I9,I4,2I2,' HAS CAPACITY OVER 10000MAIN1710
     1 MBTU''S/HR. ')                                                   MAIN1715
      DO 800 I=LF,18                                                    MAIN1720
  800 CUM2(I)=CUM2(I)-MAXBTU(K)                                         MAIN1725
  810 CONTINUE                                                          MAIN1730
      IF (MAXBTU(K).GT.0.) IX2=6.*ALOG10(MAXBTU(K))+1.0                 MAIN1735
      IF (IX2.LT.1) IX2=1                                               MAIN1740
      CUM4(IX2)=CUM4(IX2)+MAXBTU(K)                                     MAIN1745
      CUM8(IX2)=CUM8(IX2)+1.                                            MAIN1750
      DO 820 L=1,KP                                                     MAIN1755
  820 B(L)=0.0                                                          MAIN1760
      IF (ICARD.EQ.1) GO TO 830                                         MAIN1765
      IF (ICARD.EQ.2) J=0                                               MAIN1770
      JFUEL=0                                                           MAIN1775
      IF (KN.EQ.1) GO TO 830                                            MAIN1780
      KK=0                                                              MAIN1785
      GO TO 400                                                         MAIN1790
  830 CONTINUE                                                          MAIN1795
      DO 850 KM=1,34                                                    MAIN1800
      IF (PLTCAP.LE.LP(KM)) GO TO 860                                   MAIN1805
  850 CONTINUE                                                          MAIN1810
  860 MKAP(KM)=MKAP(KM)+1                                               MAIN1815
C***COMPUTE LOAD FACTOR FOR PLANT M(BOILERS 1 THROUGH K)                MAIN1820
      PLDFAC=0.                                                         MAIN1825
      TOTBTX=0.                                                         MAIN1830
      DO 870 JK=1,K                                                     MAIN1835
      PLDFAC=PLDFAC+BLDFAC(JK)*TOTBTU(JK)                               MAIN1840
  870 TOTBTX=TOTBTX+TOTBTU(JK)                                          MAIN1845
      IF (TOTBTX.GT.0.) PLDFAC=PLDFAC/TOTBTX                            MAIN1850
      IF (PLTCAP.NE.0.) GO TO 890                                       MAIN1855
      IF (IRUN.EQ.1) WRITE (3,880) (IDAT(I,N-1),I=1,6),M,K              MAIN1860
  880 FORMAT (1H0,'NO PLANT CAPACITY FOR PLANT= ',I9,I4,4I2,'  M= ',I5,'MAIN1865
     1 K= ',I4,'  MAXIMUM CAPACITY SET = 1.0')                          MAIN1870
  890 DO 900 LF=1,15                                                    MAIN1875
      IF (PLDFAC.LE.BLF(LF)) GO TO 920                                  MAIN1880
  900 CONTINUE                                                          MAIN1885
      LF=16                                                             MAIN1890
  920 LPLANT(LF)=LPLANT(LF)+1                                           MAIN1895
      IF (PLTCAP.LT.100000.) GO TO 970                                  MAIN1900
      DO 940 KK=LF,18                                                   MAIN1905
  940 CUM1(KK)=CUM1(KK)-PLTCAP                                          MAIN1910
      DO 960 MP=1,K                                                     MAIN1915
      IF (MAXBTU(MP).GE.10000.) WRITE (7,950) M,(IDAT(I,N-1),I=1,6),MP,MMAIN1920
     1AXBTU(MP)                                                         MAIN1925
  950 FORMAT (1H0,'PLANT NO. ',I5,' WITH ID NO. ',I9,I4,4I2,' HAS CAPACIMAIN1930
     1TY GREATER THAN 100,000 MBTU''S/HR.',/,' BOILER NO. ',I3,' HAS CAPMAIN1935
     1ACITY = ',F10.0,' MBTU''S/HR.   PLANT CAPACITY DATA WILL NOT BE INMAIN1940
     1CLUDED IN OUTPUT')                                                MAIN1945
  960 CONTINUE                                                          MAIN1950
      GO TO 990                                                         MAIN1955
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  970 IX1=1                                                              MAIN1960
      IF (PLTCAP.GT.0.) IX1=6.*ALOG10(PLTCAP)+1.0                        MAIN1965
      IF (IX1.LT.1)IX1=1                                                 MAIN1970
      CUM3(IX1)=CUM3(IX1)+PLTCAP                                         MAIN1975
      CUM7(IX1)=CUM7(IX1)+1                                              MAIN1980
      IF (KM.EQ.1) PLTCAP=0.                                             MAIN1985
      DO 980 I=1,K                                                       MAIN1990
      IPENTY(KM,LF)=IPENTY(KM,LF)+TOTBTU(I)                              MAIN1995
      DO 980 L=1,3                                                       MAIN2000
  980 PENTY(KM,LF)=PENTY(KM,LF)+ACTBTU(I,L)                              MAIN2005
  990 DO 1000 I=1,K                                                      MAIN2010
      BLDFAC(I)=0.0                                                      MAIN2015
      MAXBTU(I)=0.0                                                      MAIN2020
      TOTBTU(I)=0.                                                       MAIN2025
      DO 1000 L=1,3                                                      MAIN2030
      ACTBTU(I,L)=0.0                                                    MAIN2035
 1000 CONTINUE                                                           MAIN2040
 1010 CONTINUE                                                           MAIN2045
      K=0                                                                MAIN2050
      J=0                                                                MAIN2055
      JFUEL=0                                                            MAIN2060
      IBOIL=0                                                            MAIN2065
      KK=0                                                               MAIN2070
      N=1                                                                MAIN2075
      IF (KM.EQ.1) GO TO 1020                                            MAIN2080
      IF (M.LT.ILAST) GO TO 380                                          MAIN2085
C***COMPUTE ROW AND COLUMN ENTRIES FOR BOILER CAPACITIES & LOAD FACTORS   MAIN2090
 1020 WRITE (3,IFIT)                                                     MAIN2095
      WRITE (3,1030)                                                     MAIN2100
 1030 FORMAT (1H ,42X,'BOILER CAPACITY BY BOILER FUEL SULFUR CONTENT')   MAIN2105
      WRITE (3,TITLE)                                                    MAIN2110
      WRITE (3,1140)                                                     MAIN2115
      WRITE (3,1040)                                                     MAIN2120
 1040 FORMAT (37X,'TABLE ENTRIES ARE TOTAL BOILER SULFUR EMISSIONS, TONS MAIN2125
     1/YEAR')                                                            MAIN2130
      WRITE (3,1570)                                                     MAIN2135
      WRITE (3,1050)                                                     MAIN2140
 1050 FORMAT (1HO,33X,'BOILER FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIV MAIN2145
     1ALENT BTU BASIS)')                                                 MAIN2150
      WRITE (3,1060)                                                     MAIN2155
 1060 FORMAT (1H ,3X,'CAPACITY',7X,'    EQUAL        >0.         >.2     MAIN2160
     1   >.3         >.4         >.6         >.8         >1.0        >1.2',/,3XMAIN2165
     1,'MBTU''S/HR',8X,'     0.          -.2         -.3         -.4     MAIN2170
     1-.6         -.8        -1.0        -1.2        -1.5')              MAIN2175
      DO 1070 IJ=1,30                                                    MAIN2180
      DO 1070 IK=17,18                                                   MAIN2185
      IBENTY(IJ,IK)=0.                                                   MAIN2190
      BENTY(IJ,IK)=0                                                     MAIN2195
 1070 CONTINUE                                                           MAIN2200
      DO 1080 IJ=1,30                                                    MAIN2205
      DO 1080 IK=1,16                                                    MAIN2210
      IBENTY(IJ,17)=IBENTY(IJ,17)+IBENTY(IJ,IK)                          MAIN2215
      BENTY(IJ,17)=BENTY(IJ,17)+BENTY(IJ,IK)                             MAIN2220
      GO TO 1080                                                         MAIN2225
 1080 CONTINUE                                                           MAIN2230
      IBENTY(1,18)=IBENTY(1,17)                                          MAIN2235
      BENTY(1,18)=BENTY(1,17)                                            MAIN2240
      DO 1090 IJ=2,30                                                    MAIN2245
      IBENTY(IJ,18)=IBENTY(IJ,18)+IBENTY(IJ,17)+IBENTY(IJ-1,18)          MAIN2250
      BENTY(IJ,18)=BENTY(IJ,18)+BENTY(IJ,17)+BENTY(IJ-1,18)              MAIN2255
 1090 CONTINUE                                                           MAIN2260
      DO 1100 IK=1,17                                                    MAIN2265
      ICOLTT(IK)=0                                                       MAIN2270
      ICUMCL(IK)=0                                                       MAIN2275
      COLTT(IK)=0                                                        MAIN2280
      CUMCL(IK)=0                                                        MAIN2285
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      DO 1100 IJ=1,30                                                    MAIN2290
      ICOLTT(IK)=ICOLTT(IK)+IBENTY(IJ,IK)                                MAIN2295
      COLTT(IK)=COLTT(IK)+BENTY(IJ,IK)                                   MAIN2300
 1100 CONTINUE                                                           MAIN2305
      ICOLTT(18)=IBENTY(30,18)                                           MAIN2310
      COLTT(18)=BENTY(30,18)                                             MAIN2315
      CUMCL(1)=COLTT(1)                                                  MAIN2320
      ICUMCL(1)=ICOLTT(1)                                                MAIN2325
      DO 1110 IK=2,16                                                    MAIN2330
      CUMCL(IK)=COLTT(IK)+CUMCL(IK-1)                                    MAIN2335
 1110 ICUMCL(IK)=ICOLTT(IK)+ICUMCL(IK-1)                                 MAIN2340
      ICUMCL(17)=ICOLTT(17)                                              MAIN2345
      CUMCL(17)=COLTT(17)                                                MAIN2350
      ICUMCL(18)=ICOLTT(18)                                              MAIN2355
      CUMCL(18)=COLTT(18)                                                MAIN2360
      WRITE (3,1440) (BENTY(1,II),II=1,9)                                MAIN2365
      LCAP(1)=LCAP(1)+1                                                  MAIN2370
      NUM=1                                                              MAIN2375
      DO 1150 I=2,30                                                     MAIN2380
      WRITE (3,1130) LCAP(I-1),LCAP(I)                                   MAIN2385
 1130 FORMAT (1H ,I5,'-',I6)                                             MAIN2390
      LCAP(I)=LCAP(I)+1                                                  MAIN2395
      WRITE (3,1450) (BENTY(I,II),II=1,9)                                MAIN2400
      IF (I/5.LT.NUM) GO TO 1150                                         MAIN2405
      NUM=NUM+1                                                          MAIN2410
      WRITE (3,1140)                                                     MAIN2415
 1140 FORMAT (1H )                                                       MAIN2420
 1150 CONTINUE                                                           MAIN2425
      WRITE (3,1470) (COLTT(IK),IK=1,9)                                  MAIN2430
      WRITE (3,1480) (CUMCL(IK),IK=1,9)                                  MAIN2435
C***PRINT SECOND HALF OF TABLE FOR NUMBER OF BOILERS BY CAP'Y AND L.F.   MAIN2440
      WRITE (3,ITIT)                                                     MAIN2445
      WRITE (3,1420)                                                     MAIN2450
      WRITE (3,TITLE)                                                    MAIN2455
      WRITE (3,1140)                                                     MAIN2460
      WRITE (3,1040)                                                     MAIN2465
      WRITE (3,1570)                                                     MAIN2470
      WRITE (3,1050)                                                     MAIN2475
      WRITE (3,1160)                                                     MAIN2480
 1160 FORMAT (4X,'CAPACITY',7X,'     >1.5        >2.0        >2.5        >3.MAIN2485
     1'       >3.5        >4.0        >5.0         ROW        CUMTOT',/,3X,'MAIN2490
     1'BTU''S/HR',11X,'-2.0        -2.5        -3.0        -3.5        -4.0 MAIN2495
     1      -5.0                  TOTAL          ALL')                    MAIN2500
      WRITE (3,1440) (BENTY(1,II),II=10,18)                              MAIN2505
      NUM=1                                                              MAIN2510
      DO 1170 I=2,30                                                     MAIN2515
 1170 LCAP(I)=LCAP(I)-1                                                  MAIN2520
      DO 1180 J=2,30                                                     MAIN2525
      WRITE (3,1130) LCAP(J-1),LCAP(J)                                   MAIN2530
      LCAP(J)=LCAP(J)+1                                                  MAIN2535
      WRITE (3,1450) (BENTY(J,II),II=10,18)                              MAIN2540
      IF (J/5.LT.NUM) GO TO 1180                                         MAIN2545
      NUM=NUM+1                                                          MAIN2550
      WRITE (3,1140)                                                     MAIN2555
 1180 CONTINUE                                                           MAIN2560
      WRITE (3,1470) (COLTT(IK),IK=10,18)                                MAIN2565
      WRITE (3,1480) (CUMCL(IK),IK=10,18)                                MAIN2570
      TOT2=ICUMCL(18)                                                    MAIN2575
      TOT6=CUMCL(18)                                                     MAIN2580
      DO 1190 IK=1,18                                                    MAIN2585
      CUM1(IK)=ICUMCL(IK)                                                MAIN2590
      CUM2(IK)=ICUMCL(IK)+CUM2(IK)                                       MAIN2595
      IF (TOT2.EQ.0.) GO TO 1200                                         MAIN2600
      CUM1(IK)=CUM1(IK)*100./TOT2                                        MAIN2605
      CUM2(IK)=CUM2(IK)*100./TOT2                                        MAIN2610
 1190 CUM5(IK)=CUMCL(IK)                                                 MAIN2615
```

```
C***WRITE HEADINGS FOR FIRST HALF OF TABLE OF PLANTS BY LOAD FACTORS     MAIN2620
 1200 WRITE (3,ITIT)                                                    MAIN2625
      WRITE (3,1210)                                                    MAIN2630
 1210 FORMAT (1H ,43X,'PLANT CAPACITY BY PLANT FUEL SULFUR CONTENT')     MAIN2635
      WRITE (3,TITLE)                                                   MAIN2640
      WRITE (3,1140)                                                    MAIN2645
      WRITE (3,1280)                                                    MAIN2650
      WRITE (3,1570)                                                    MAIN2655
      WRITE (3,1220)                                                    MAIN2660
 1220 FORMAT (1H0,33X,'PLANT FUEL SULFUR CONTENT (WEIGHT PERCENT, EQUIVAMAIN2665
     1LENT BTU BASIS)')                                                 MAIN2670
      WRITE (3,1060)                                                    MAIN2675
C***INITIALIZE TABLE EXTENSION TO NUMBERS OF PLANTS WITHIN CAP'Y & L.F. MAIN2680
      DO 1230 KM=1,34                                                   MAIN2685
      DO 1230 LF=1,16                                                   MAIN2690
      IPENTY(KM,17)=IPENTY(KM,17)+IPENTY(KM,LF)                         MAIN2695
      PENTY(KM,17)=PENTY(KM,17)+PENTY(KM,LF)                            MAIN2700
 1230 CONTINUE                                                          MAIN2705
      IPENTY(1,18)=IPENTY(1,17)                                         MAIN2710
      PENTY(1,18)=PENTY(1,17)                                           MAIN2715
      DO 1240 KM=2,34                                                   MAIN2720
      IPENTY(KM,18)=IPENTY(KM,18)+IPENTY(KM,17)+IPENTY(KM-1,18)         MAIN2725
      PENTY(KM,18)=PENTY(KM,18)+PENTY(KM,17)+PENTY(KM-1,18)             MAIN2730
 1240 CONTINUE                                                          MAIN2735
      DO 1250 IK=1,17                                                   MAIN2740
      COLTT(IK)=0                                                       MAIN2745
      CUMCL(IK)=0                                                       MAIN2750
      DO 1250 IJ=1,34                                                   MAIN2755
      COLTT(IK)=COLTT(IK)+PENTY(IJ,IK)                                  MAIN2760
 1250 CONTINUE                                                          MAIN2765
      COLTT(18)=PENTY(34,18)                                            MAIN2770
      ICOLTT(18)=IPENTY(34,18)                                          MAIN2775
      ICUMCL(1)=ICOLTT(1)                                               MAIN2780
      CUMCL(1)=COLTT(1)                                                 MAIN2785
      DO 1260 IK=2,17                                                   MAIN2790
      CUMCL(IK)=COLTT(IK)+CUMCL(IK-1)                                   MAIN2795
 1260 CONTINUE                                                          MAIN2800
      CUMCL(17)=COLTT(17)                                               MAIN2805
      CUMCL(18)=COLTT(18)                                               MAIN2810
C***PRINT TABLE ENTRIES--FIRST HALF OF PLANTS BY CAP'Y & LOAD FACTOR     MAIN2815
      WRITE (3,1440) (PENTY(1,II),II=1,9)                               MAIN2820
      LP(1)=LP(1)+1                                                     MAIN2825
      NUM=1                                                             MAIN2830
      DO 1270 I=2,34                                                    MAIN2835
      WRITE (3,1130) LP(I-1),LP(I)                                      MAIN2840
      LP(I)=LP(I)+1                                                     MAIN2845
      WRITE (3,1450) (PENTY(I,II),II=1,9)                               MAIN2850
      IF (I/5.LT.NUM) GO TO 1270                                        MAIN2855
      NUM=NUM+1                                                         MAIN2860
      WRITE (3,1140)                                                    MAIN2865
 1270 CONTINUE                                                          MAIN2870
      WRITE (3,1470) (COLTT(IK),IK=1,9)                                 MAIN2875
      WRITE (3,1480) (CUMCL(IK),IK=1,9)                                 MAIN2880
C***PRINT SECOND HALF OF TABLE--PLANTS BY CAP'Y AND LOAD FACTOR          MAIN2885
      WRITE (3,ITIT)                                                    MAIN2890
      WRITE (3,1210)                                                    MAIN2895
      WRITE (3,TITLE)                                                   MAIN2900
      WRITE (3,1140)                                                    MAIN2905
      WRITE (3,1280)                                                    MAIN2910
 1280 FORMAT (37X,'TABLE ENTRIES ARE TOTAL PLANT SULFUR EMISSIONS, TONS/MAIN2915
     1YEAR')                                                            MAIN2920
      WRITE (3,1570)                                                    MAIN2925
      WRITE (3,1220)                                                    MAIN2930
      WRITE (3,1160)                                                    MAIN2935
      WRITE (3,1440) (PENTY(1,II),II=10,18)                             MAIN2940
      NUM=1                                                             MAIN2945
```

```
      DO 1290 I=2,34                                                    MAIN2950
 1290 LP(I)=LP(I)-1                                                     MAIN2955
      DO 1300 J=2,34                                                    MAIN2960
      WRITE (3,1130) LP(J-1),LP(J)                                      MAIN2965
      WRITE (3,1450) (PENTY(J,II),II=10,18)                             MAIN2970
      LP(J)=LP(J)+1                                                     MAIN2975
      IF (J/5.LT.NUM) GO TO 1300                                        MAIN2980
      NUM=NUM+1                                                         MAIN2985
      WRITE (3,1140)                                                    MAIN2990
 1300 CONTINUE                                                          MAIN2995
      WRITE (3,1140)                                                    MAIN3000
      WRITE (3,1470) (COLTT(IK),IK=10,18)                               MAIN3005
      WRITE (3,1480) (CUMCL(IK),IK=10,18)                               MAIN3010
      DO 1310 IK=2,30                                                   MAIN3015
      CUM7(IK)=CUM7(IK)+CUM7(IK-1)                                      MAIN3020
      CUM8(IK)=CUM8(IK)+CUM8(IK-1)                                      MAIN3025
      CUM3(IK)=CUM3(IK)+CUM3(IK-1)                                      MAIN3030
 1310 CUM4(IK)=CUM4(IK)+CUM4(IK-1)                                      MAIN3035
      TOT8=CUMCL(18)                                                    MAIN3040
      IF ((TOT6.EQ.0.).OR.(TOT8.EQ.0.)) GO TO 1330                      MAIN3045
      TOTT6=CUM8(30)                                                    MAIN3050
      TOTT8=CUM7(30)                                                    MAIN3055
      DO 1320 IK=1,30                                                   MAIN3060
      CUM7(IK)=CUM7(IK)*100./TOTT8                                      MAIN3065
 1320 CUM8(IK)=CUM8(IK)*100./TOTT6                                      MAIN3070
C***CALL PLOTS FOR CUMULATIVE AND DENSITY DISTRIBUTIONS OF BOILS & PLTS. MAIN3075
 1330 WRITE (3,ITIT)                                                    MAIN3080
      WRITE (3,TITLE)                                                   MAIN3085
      WRITE (3,1340)                                                    MAIN3090
 1340 FORMAT (47X,'BOILER AND PLANT NUMBER DISTRIBUTIONS',//,'      X--INMAIN3095
     1DIVIDUAL BOILERS',/,'      *--INDIVIDUAL PLANTS')                MAIN3100
      IF ((TOT6.EQ.0.).OR.(TOT8.EQ.0.)) GO TO 1400                      MAIN3105
      CALL PLOT1(CUM8,CUM7,IND,TOTT6,TOTT8)                             MAIN3110
      WRITE (IPRINT,1350) TOTT6,TOTT8                                   MAIN3115
 1350 FORMAT ('     NUMBER OF BOILERS (ALL DATA) = ',I9,/,'      NUMBER OFMAIN3120
     1 PLANTS (ALL DATA) =',I9)                                         MAIN3125
      DO 1360 IK=1,18                                                   MAIN3130
 1360 CUM6(IK)=CUMCL(IK)                                                MAIN3135
      DO 1370 IK=1,18                                                   MAIN3140
      CUM5(IK)=CUM5(IK)*100./TOT6                                       MAIN3145
 1370 CUM6(IK)=CUM6(IK)*100./TOT8                                       MAIN3150
C***WRITE TITLES AND CALL PLOT2 (CUMULATIVE BOILER & PLANT DATA)        MAIN3155
      WRITE (3,ITIT)                                                    MAIN3160
      WRITE (3,TITLE)                                                   MAIN3165
      WRITE (3,1380)                                                    MAIN3170
 1380 FORMAT (53X,'FUEL SULFUR CONTENTS')                               MAIN3175
      DMAX=100.                                                         MAIN3180
      IND=0                                                             MAIN3185
      CALL PLOT2(CUM5,CUM6,IND,IISIDE,JJSIDE,TOTT6,TOTT8,DMAX)          MAIN3190
      WRITE (IPRINT,1350) TOTT6,TOTT8                                   MAIN3195
C***WRITE TITLES AND CALL PLOT2 AGAIN (DENSITY DATA, BOILERS & PLANTS)  MAIN3200
      WRITE (3,ITIT)                                                    MAIN3205
      WRITE (3,TITLE)                                                   MAIN3210
      WRITE (3,1650)                                                    MAIN3215
      DMAX=AMAX1(CUM5(1),CUM6(1))                                       MAIN3220
      DO 1390 IK=1,17                                                   MAIN3225
      I=19-IK                                                           MAIN3230
      CUM5(I)=CUM5(I)-CUM5(I-1)                                         MAIN3235
      CUM6(I)=CUM6(I)-CUM6(I-1)                                         MAIN3240
 1390 DMAX=AMAX1(DMAX,CUM5(I),CUM6(I))                                  MAIN3245
      CALL PLOT2(CUM5,CUM6,IND,KKSIDE,LLSIDE,TOTT6,TOTT8,DMAX)          MAIN3250
 1400 IF ((TOT6.EQ.0.).OR.(TOT8.EQ.0.)) WRITE (3,1410)                  MAIN3255
 1410 FORMAT (1H0,//,' GRAPHIC DISPLAY OF DATA IS NOT GIVEN FOR THIS TYPMAIN3260
     1E OF FUEL. SEE ASSOCIATED TABLES AND THE FOLLOWING 2 LINES FOR FURMAIN3265
     1THER INFORMATION',//)                                             MAIN3270
      WRITE (IPRINT,1350) TOTT6,TOTT8                                   MAIN3275
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      IND=0                                                              MAIN3280
C***WRITE TITLES AND PRINT TABLE FOR BOILERS, CAP'Y BY CAP'Y AND L.F.    MAIN3285
      WRITE (3,IIII)                                                     MAIN3290
      WRITE (3,1420)                                                     MAIN3295
 1420 FORMAT (1H ,36X,'BOILER FUEL USE BY BOILER FUEL SULFUR CONTENT ANDMAIN3300
     1 CAPACITY')                                                        MAIN3305
      WRITE (3,TITLE)                                                    MAIN3310
      WRITE (3,1140)                                                     MAIN3315
      WRITE (3,1560)                                                     MAIN3320
      WRITE (3,1570)                                                     MAIN3325
      WRITE (3,1050)                                                     MAIN3330
      WRITE (3,1060)                                                     MAIN3335
      DO 1430 LK=2,30                                                    MAIN3340
 1430 LCAP(LK)=LCAP(LK)-1                                                MAIN3345
      WRITE (3,1440) (IBENTY(1,II),II=1,9)                               MAIN3350
 1440 FORMAT (1H0,' EQUAL     0',4X,9(1X,F10.0))                        MAIN3355
      NUM=1                                                              MAIN3360
      DO 1460 I=2,30                                                     MAIN3365
      WRITE (3,1130) LCAP(I-1),LCAP(I)                                   MAIN3370
      WRITE (3,1450) (IBENTY(I,II),II=1,9)                               MAIN3375
 1450 FORMAT (1H+,16X,9(1X,F10.0))                                       MAIN3380
      LCAP(I)=LCAP(I)+1                                                  MAIN3385
      IF (I/5.LT.NUM) GO TO 1460                                         MAIN3390
      NUM=NUM+1                                                          MAIN3395
      WRITE (3,1140)                                                     MAIN3400
 1460 CONTINUE                                                           MAIN3405
      WRITE (3,1140)                                                     MAIN3410
      WRITE (3,1470) (ICOLTT(IK),IK=1,9)                                 MAIN3415
 1470 FORMAT (1H0,'COLUMN TOTALS',3X,9(1X,F10.0))                        MAIN3420
      WRITE (3,1480) (ICUMCL(IK),IK=1,9)                                 MAIN3425
 1480 FORMAT (1H ,'CUMUL. TOTALS',3X,9(1X,F10.0))                        MAIN3430
C***PRINT SECOND HALF OF TABLE-BOILER CAP'Y BY CAP'Y & LOAD FACTOR RANGEMAIN3435
      WRITE (3,IIII)                                                     MAIN3440
      WRITE (3,1420)                                                     MAIN3445
      WRITE (3,TITLE)                                                    MAIN3450
      WRITE (3,1140)                                                     MAIN3455
      WRITE (3,1560)                                                     MAIN3460
      WRITE (3,1570)                                                     MAIN3465
      WRITE (3,1050)                                                     MAIN3470
      WRITE (3,1160)                                                     MAIN3475
      WRITE (3,1440) (IBENTY(1,II),II=10,18)                             MAIN3480
      NUM=1                                                              MAIN3485
      DO 1490 I=2,30                                                     MAIN3490
 1490 LCAP(I)=LCAP(I)-1                                                  MAIN3495
      DO 1500 J=2,30                                                     MAIN3500
      WRITE (3,1130) LCAP(J-1),LCAP(J)                                   MAIN3505
      LCAP(J)=LCAP(J)+1                                                  MAIN3510
      WRITE (3,1450) (IBENTY(J,II),II=10,18)                             MAIN3515
      IF (J/5.LT.NUM) GO TO 1500                                         MAIN3520
      NUM=NUM+1                                                          MAIN3525
      WRITE (3,1140)                                                     MAIN3530
 1500 CONTINUE                                                           MAIN3535
      WRITE (3,1140)                                                     MAIN3540
      WRITE (3,1470) (ICOLTT(IK),IK=10,18)                               MAIN3545
      WRITE (3,1480) (ICUMCL(IK),IK=10,18)                               MAIN3550
      DO 1510 IK=1,17                                                    MAIN3555
      ICOLTT(IK)=0                                                       MAIN3560
      ICUMCL(IK)=0                                                       MAIN3565
      DO 1510 IJ=1,34                                                    MAIN3570
      ICOLTT(IK)=ICOLTT(IK)+IPENTY(IJ,IK)                                MAIN3575
 1510 CONTINUE                                                           MAIN3580
      ICOLTT(18)=IPENTY(34,18)                                           MAIN3585
      ICUMCL(1)=ICOLTT(1)                                                MAIN3590
      DO 1520 IK=2,16                                                    MAIN3595
      ICUMCL(IK)=ICOLTT(IK)+ICUMCL(IK-1)                                 MAIN3600
 1520 CONTINUE                                                           MAIN3605
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      ICUMCL(17)=ICOLTT(17)                                              MAIN3610
      ICUMCL(18)=ICOLTT(18)                                              MAIN3615
      TOT4=ICUMCL(18)                                                    MAIN3620
C***WRITE TITLES AND PRINT TABLE FOR PLANTS, CAP'Y BY CAP'Y AND L.F.     MAIN3625
      WRITE (3,IIIT)                                                     MAIN3630
      WRITE (3,1530)                                                     MAIN3635
 1530 FORMAT (1H ,37X,'PLANT FUEL USE BY PLANT FUEL SULFUR CONTENT AND CMAIN3640
     1APACITY')                                                          MAIN3645
      WRITE (3,TITLE)                                                    MAIN3650
      WRITE (3,1140)                                                     MAIN3655
      WRITE (3,1560)                                                     MAIN3660
      WRITE (3,1570)                                                     MAIN3665
      WRITE (3,1220)                                                     MAIN3670
      WRITE (3,1060)                                                     MAIN3675
      WRITE (3,1440)  (IPENTY(1,II),II=1,9)                              MAIN3680
      DO 1540 J=2,34                                                     MAIN3685
 1540 LP(J)=LP(J)-1                                                      MAIN3690
      NUM=1                                                              MAIN3695
      DO 1550 I=2,34                                                     MAIN3700
      WRITE (3,1130) LP(I-1),LP(I)                                       MAIN3705
      WRITE (3,1450)  (IPENTY(I,II),II=1,9)                              MAIN3710
      LP(I)=LP(I)+1                                                      MAIN3715
      IF (I/5.LT.NUM) GO TO 1550                                         MAIN3720
      NUM=NUM+1                                                          MAIN3725
      WRITE (3,1140)                                                     MAIN3730
 1550 CONTINUE                                                           MAIN3735
      WRITE (3,1470)  (ICOLTT(IK),IK=1,9)                                MAIN3740
      WRITE (3,1480)  (ICUMCL(IK),IK=1,9)                                MAIN3745
C***WRITE TITLES AND PRINT SECOND HALF OF PLANT CAP'Y BY CAP'Y & L.F.     MAIN3750
      WRITE (3,IIIT)                                                     MAIN3755
      WRITE (3,1530)                                                     MAIN3760
      WRITE (3,TITLE)                                                    MAIN3765
      WRITE (3,1140)                                                     MAIN3770
      WRITE (3,1560)                                                     MAIN3775
 1560 FORMAT (38X,'TABLE ENTRIES ARE ACTUAL FUEL CONSUMPTION, GBTU''S/YEMAIN3780
     1AR')                                                               MAIN3785
      WRITE (3,1570)                                                     MAIN3790
 1570 FORMAT (1H ,42X,'WITHIN CAPACITY AND FUEL SULFUR CONTENT RANGES')  MAIN3795
      WRITE (3,1220)                                                     MAIN3800
      WRITE (3,1160)                                                     MAIN3805
      WRITE (3,1440)  (IPENTY(1,II),II=10,18)                            MAIN3810
      NUM=1                                                              MAIN3815
      DO 1580 I=2,34                                                     MAIN3820
 1580 LP(I)=LP(I)-1                                                      MAIN3825
      DO 1590 J=2,34                                                     MAIN3830
      WRITE (3,1130)  LP(J-1),LP(J)                                      MAIN3835
      LP(J)=LP(J)+1                                                      MAIN3840
      WRITE (3,1450)  (IPENTY(J,II),II=10,18)                            MAIN3845
      IF (J/5.LT.NUM) GO TO 1590                                         MAIN3850
      NUM=NUM+1                                                          MAIN3855
      WRITE (3,1140)                                                     MAIN3860
 1590 CONTINUE                                                           MAIN3865
      WRITE (3,1140)                                                     MAIN3870
      WRITE (3,1470)  (ICOLTT(IK),IK=10,18)                              MAIN3875
      WRITE (3,1480)  (ICUMCL(IK),IK=10,18)                              MAIN3880
C***WRITE TITLES AND CALL PLOT1(BOILER AND PLANT CUMULATIVE CAP'Y DATA)  MAIN3885
      WRITE (3,IIIT)                                                     MAIN3890
      WRITE (3,TITLE)                                                    MAIN3895
      WRITE (3,1600)                                                     MAIN3900
 1600 FORMAT (48X,'BOILER AND PLANT SIZE DISTRIBUTIONS',//,'     X--INDIMAIN3905
     1VIDUAL BOILERS',/,'     *--PLANTS')                               MAIN3910
      IF ((TOT2.EQ.0.).OR.(TOT4.EQ.0.)) GO TO 1670                       MAIN3915
      TOTT4=CUM3(30)                                                     MAIN3920
      TOTT2=CUM4(30)                                                     MAIN3925
      DO 1610 IK=1,30                                                    MAIN3930
      CUM3(IK)=CUM3(IK)*100./TOTT4                                       MAIN3935
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 1610 CUM4(IK)=CUM4(IK)*100./TOTT2                                      MAIN3940
      CALL PLOT1(CUM4,CUM3,IND,TOT2,TOT4)                               MAIN3945
      WRITE (IPRINT,1640) TOTT2,TOTT4                                   MAIN3950
C***WRITE TITLES AND CALL PLOT2 (CUMUL. DATA, CAP'Y BY CAP'Y & L.F.)     MAIN3955
      WRITE (3,IIIT)                                                    MAIN3960
      WRITE (3,TITLE)                                                   MAIN3965
      WRITE (3,1380)                                                    MAIN3970
      DMAX=100.                                                         MAIN3975
      DO 1620 IK=1,18                                                   MAIN3980
      CUM1(IK)=ICUMCL(IK)+CUM1(IK)                                      MAIN3985
 1620 CUM2(IK)=ICUMCL(IK)                                               MAIN3990
      TOT4=CUM2(16)                                                     MAIN3995
      DO 1630 IK=1,18                                                   MAIN4000
      CUM1(IK)=CUM1(IK)*100./TOT2                                       MAIN4005
 1630 CUM2(IK)=CUM2(IK)*100./TOT4                                       MAIN4010
      CALL PLOT2(CUM1,CUM2,IND,ISIDE,JSIDE,TOT2,TOT4,DMAX)              MAIN4015
      WRITE (IPRINT,1640) TOTT2,TOTT4                                   MAIN4020
 1640 FORMAT (' BOILER CAPACITIES (ALL DATA) =',F10.0,/,' PLANT CAPACI  MAIN4025
     1TIES (ALL DATA) =',F11.0)                                         MAIN4030
C***WRITE TITLES AND CALL PLOT2(DENSITY DATA, CAP'Y BY CAP'Y & FSC      MAIN4035
      WRITE (3,IIIT)                                                    MAIN4040
      WRITE (3,TITLE)                                                   MAIN4045
      WRITE (3,1650)                                                    MAIN4050
 1650 FORMAT (51X,'FUEL SULFUR CONTENT DENSITIES')                      MAIN4055
      DMAX=AMAX1(CUM1(1),CUM2(1))                                       MAIN4060
      DO 1660 IK=1,17                                                   MAIN4065
      I=19-IK                                                           MAIN4070
      CUM1(I)=CUM1(I)-CUM1(I-1)                                         MAIN4075
      CUM2(I)=CUM2(I)-CUM2(I-1)                                         MAIN4080
 1660 DMAX=AMAX1(DMAX,CUM1(I),CUM2(I))                                  MAIN4085
      CALL PLOT2(CUM1,CUM2,IND,KSIDE,LSIDE,TOT2,TOT4,DMAX)              MAIN4090
 1670 IF ((TOT2.EQ.0.).OR.(TOT4.EQ.0.)) WRITE (3,1410)                  MAIN4095
      WRITE (IPRINT,1640) TOTT2,TOTT4                                   MAIN4100
      GO TO 30                                                          MAIN4105
 1690 CONTINUE                                                          MAIN4110
      CALL EXIT                                                         MAIN4115
      END                                                               MAIN4120
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      SUBROUTINE PLOT1(DATA,CATA,IND,TOT2,TOT4)                          PLT1  10
      DIMENSION IGR(41,30)                                               PLT1  15
      DIMENSION DATA(30),CATA(30),SCALE(11)                              PLT1  20
      DATA IBLANK/'     '/,IX/'   X'/,ISTAR/'   *'/                      PLT1  25
      IF (IND)  20,10,20                                                 PLT1  30
C                                                                        PLT1  35
C   ON FIRST CALL, INITIALIZE VALUES.                                    PLT1  40
C                                                                        PLT1  45
   10 IND=999                                                            PLT1  50
      DMAX=100.                                                          PLT1  55
      SCALE(1)=0.                                                        PLT1  60
C                                                                        PLT1  65
C   START BY BLANKING IGR.                                               PLT1  70
C                                                                        PLT1  75
   20 DO 30 J=1,30                                                       PLT1  80
      DO 30 I=1,41                                                       PLT1  85
   30 IGR(I,J)=IBLANK                                                    PLT1  90
C                                                                        PLT1  95
C   PRINT GRAPH TOP                                                      PLT1 100
C                                                                        PLT1 105
      PRINT 40                                                           PLT1 110
   40 FORMAT (55X,'CAPACITY RANGES, MBTU/HR'//)                          PLT1 115
      PRINT 50                                                           PLT1 120
   50 FORMAT (5X,124H        2.2      4.6     10.0     21.5     46.4      100 PLT1 125
     1    215      464     1000     2150     4640     10000    21500    46400 PLT1 130
     1100000 )                                                           PLT1 135
      PRINT 60                                                           PLT1 140
   60 FORMAT (5X,124H   1.5  |  3.2  |  6.8  |  14.7 |  31.6 |  68.1 |   PLT1 145
     1147  |  316  |  681  | 1470  | 3160  | 6810  | 14700 | 31600 | 681PLT1 150
     100 |   )                                                           PLT1 155
      PRINT 70                                                           PLT1 160
   70 FORMAT (5X,122HI---|---|---|---|---|---|---|---|---|---|---|---|--PLT1 165
     1-|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|PLT1 170
     1---|I)                                                            PLT1 175
C                                                                        PLT1 180
C   DETERMINE VERTICAL SCALE FACTORS.                                    PLT1 185
C                                                                        PLT1 190
      DO 80 I=2,11                                                       PLT1 195
      SCALE(I)=DMAX/10.*FLOAT(I-1)                                       PLT1 200
   80 CONTINUE                                                           PLT1 205
C                                                                        PLT1 210
C   SET UP PRINT GRID IGR.                                               PLT1 215
      DMAXX=DMAX/40.                                                     PLT1 220
C                                                                        PLT1 225
      DO 140 I=1,30                                                      PLT1 230
      X1=DATA(I)                                                         PLT1 235
      X2=CATA(I)                                                         PLT1 240
      IF (X2-DMAXX)  100,100,90                                          PLT1 245
   90 IDX=X2/DMAX*40.+1.                                                 PLT1 250
      IGR(IDX,I)=ISTAR                                                   PLT1 255
      GO TO 110                                                          PLT1 260
  100 IGR(1,I)=ISTAR                                                     PLT1 265
  110 IF (X2-DMAXX)  130,130,120                                         PLT1 270
  120 IDX2=X1/DMAX*40.+1.                                                PLT1 275
      IGR(IDX2,I)=IX                                                     PLT1 280
      GO TO 140                                                          PLT1 285
  130 IGR(1,I)=IX                                                        PLT1 290
  140 CONTINUE                                                           PLT1 295
C                                                                        PLT1 300
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C   PRINT GRAPH.                                                          PLT1 305
C                                                                         PLT1 310
      DO 180 I=1,10                                                       PLT1 315
      J=12-I                                                              PLT1 320
      K=(J-1)*4+1                                                         PLT1 325
      PRINT 150,SCALE(J),(IGR(K,L),L=1,30),SCALE(J)                       PLT1 330
  150 FORMAT (F5.0,1H-,30A4,1H-,F5.0)                                     PLT1 335
      DO 160 M=1,3                                                        PLT1 340
      K=K-1                                                               PLT1 345
  160 PRINT 170,(IGR(K,L),L=1,30)                                         PLT1 350
  170 FORMAT (5X,'I',30A4,'I')                                            PLT1 355
  180 CONTINUE                                                            PLT1 360
      PRINT 150,SCALE(1),(IGR(1,L),L=1,30),SCALE(1)                       PLT1 365
      PRINT 70                                                            PLT1 370
      PRINT 60                                                            PLT1 375
      PRINT 50                                                            PLT1 380
      PRINT 40                                                            PLT1 385
      RETURN                                                              PLT1 390
      END                                                                 PLT1 395
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      SUBROUTINE PLOT2(DATA,CORAQ,IND,ISIDE,JSIDE,TOT2,TOT4,DMAX)        PLT2  10
      DIMENSION IGR(21,36)                                               PLT2  15
      DIMENSION DATA(36),SCALE(11),CORAQ(36),ISIDE(3,21),JSIDE(3,21)     PLT2  20
      DIMENSION SCH(16)                                                  PLT2  25
      DATA SCH/0.,0.,.2,.3,.4,.6,.8,1.,1.2,1.5,2.0,2.5,3.0,3.5,4.0,5.0/  PLT2  30
      DATA ISPACE/'     '/,ISPASK/'    *'/,ISPACX/'    X'/               PLT2  35
      IF (IND)  20,10,20                                                 PLT2  40
C                                                                        PLT2  45
C   ON FIRST CALL, INITIALIZE VALUES.                                    PLT2  50
C                                                                        PLT2  55
   10 IND=999                                                            PLT2  60
      IPRINT=3                                                           PLT2  65
      ISTAR=ISPASK                                                       PLT2  70
      IBLANK=ISPACE                                                      PLT2  75
      IX=ISPACX                                                          PLT2  80
      SCALE(1)=0.                                                        PLT2  85
C                                                                        PLT2  90
C   START BY BLANKING IGR.                                               PLT2  95
C                                                                        PLT2 100
   20 DO 30 I=1,21                                                       PLT2 105
      DO 30 J=1,36                                                       PLT2 110
   30 IGR(I,J)=IBLANK                                                    PLT2 115
C                                                                        PLT2 120
C   DETERMINE VERTICAL SCALE FACTORS.                                    PLT2 125
C                                                                        PLT2 130
      DMAX1=DMAX/20.                                                     PLT2 135
      DO 40 I=2,11                                                       PLT2 140
      SCALE(I)=DMAX/10.*FLOAT(I-1)                                       PLT2 145
   40 CONTINUE                                                           PLT2 150
C                                                                        PLT2 155
C   SET UP PRINT GRID IGR.                                               PLT2 160
C                                                                        PLT2 165
      DO 60 I=1,16                                                       PLT2 170
      X2=DATA(I)                                                         PLT2 175
      IDX2=X2*20./DMAX+1.                                                PLT2 180
      IF (X2.LE.DMAX1) IDX2=1                                            PLT2 185
      IGR(IDX2,I)=ISTAR                                                  PLT2 190
   60 CONTINUE                                                           PLT2 195
C                                                                        PLT2 200
C   PRINT GRAPH.                                                         PLT2 205
C                                                                        PLT2 210
      WRITE (IPRINT,70)                                                  PLT2 215
   70 FORMAT (33X,66HI---|---|---|---|---|---|---|---|---|---|---|---|--PLT2 220
     1-|---|---|---|I)                                                   PLT2 225
      DO 100 I=1,10                                                      PLT2 230
      J=12-I                                                             PLT2 235
      K=J+J-1                                                            PLT2 240
      WRITE (IPRINT,80) (ISIDE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=1,16),SCPLT2 245
     1ALE(J),(ISIDE(L,K),L=1,3)                                          PLT2 250
   80 FORMAT (17X,2A4,A2,F5.1,2H -,16A4,2H- ,F5.1,2X,2A4,A2)             PLT2 255
      K=K-1                                                              PLT2 260
      WRITE (IPRINT,90) (ISIDE(L,K),L=1,3),(IGR(K,L),L=1,16),(ISIDE(L,K)PLT2 265
     1,L=1,3)                                                            PLT2 270
   90 FORMAT (17X,2A4,A2,5X,2H I,16A4,2HI ,7X,2A4,A2)                    PLT2 275
  100 CONTINUE                                                           PLT2 280
      WRITE (IPRINT,80) (ISIDE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=1,16),SCPLT2 285
     1ALE(1),(ISIDE(L,1),L=1,3)                                          PLT2 290
      WRITE (IPRINT,70)                                                  PLT2 295
      WRITE (IPRINT,110) (SCH(I),I=1,16),(SCH(I),I=2,16)                 PLT2 300
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```
110 FORMAT (35X,15F4.1,'>',F3.1,/,35X,15('-',F3.1),/,55X,'FUEL SULFUR  PLT2 305
   1CONTENT',//)                                                      PLT2 310
    WRITE (IPRINT,70)                                                 PLT2 315
    DO 120 I=1,21                                                     PLT2 320
    DO 120 J=1,16                                                     PLT2 325
120 IGR(I,J)=IBLANK                                                   PLT2 330
    DO 130 I=1,16                                                     PLT2 335
    X1=CORAQ(I)                                                       PLT2 340
    IDX=X1/DMAX*20.+1.                                                PLT2 345
    IF (X1.LE.DMAX1) IDX=1                                            PLT2 350
    IGR(IDX,I)=IX                                                     PLT2 355
130 CONTINUE                                                          PLT2 360
    DO 140 I=1,10                                                     PLT2 365
    J=12-I                                                            PLT2 370
    K=J+J-1                                                           PLT2 375
    WRITE (IPRINT,80) (JSIDE(L,K),L=1,3),SCALE(J),(IGR(K,L),L=1,16),SCPLT2 380
   1ALE(J),(JSIDE(L,K),L=1,3)                                         PLT2 385
    K=K-1                                                             PLT2 390
    WRITE (IPRINT,90) (JSIDE(L,K),L=1,3),(IGR(K,L),L=1,16),(JSIDE(L,K)PLT2 395
   1,L=1,3)                                                           PLT2 400
140 CONTINUE                                                          PLT2 405
    WRITE (IPRINT,80) (JSIDE(L,1),L=1,3),SCALE(1),(IGR(1,I),I=1,16),SCPLT2 410
   1ALE(1),(JSIDE(L,1),L=1,3)                                         PLT2 415
    WRITE (IPRINT,70)                                                 PLT2 420
    WRITE (IPRINT,110) (SCH(I),I=1,16),(SCH(I),I=2,16)                PLT2 425
    RETURN                                                            PLT2 430
    END                                                               PLT2 435
```